

# *iCAMView* **PRO**

## User Manual

Version 10.04

**For models:**  
**iCV-01a / iCV-03a / iCV-08**



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## **Chapter 1: Introduction**

### **1.1. Features**

iCAMView is a compact stand-alone web-server capable of remote video surveillance. It can be accessed from anywhere in the world via a standard browser by entering the IP Address (or Domain Name), account and password. This allows iCAMView to stream video images directly to the Internet without having to go through a computer.

iCAMView features a Windows-based software that allows the user to archive streaming video directly to the viewer's hard-drive. The same software also allows the user to monitor multiple cameras on one screen.

Features:

- Support Wireless USB dongle (using chipset: Atheros / Ralink).
- Support USB Hub.
- Support USB Flash disk (FAT32) for local storage.
- Support TWO USB PC Camera (VIMICRO ZC0301 Plus processor built-in).
- Support Pan/Tilt and Infrared USB PC Camera (sold separately).
- Support Environment sensor (NetFeeler Lite), wireless smoke & door sensor (sold separately).
- LCD display shows; IP address, Subnet Mask and Gateway.
- Built-in Web Server with 32-Bit RISC CPU.
- 10/100Mbps Fast Ethernet Network Access.
- Support Java-Enabled Web Browser.
- Up to 30 Remote Viewers per camera.
- Create up to 8 User Access Accounts and Passwords.
- Network Protocol: HTTP, TCP/IP, UDP, SMTP, PPPoE, Dynamic DNS, DNS Client, SNTP, BOOTP, DHCP, FTP, SNMP.
- Resolution available: 640x480 (VGA), 352x288 (CIF), 320x240 (QVGA), 176x144 (QCIF), 160x120 (QQVGA).
- Frame Rate: Up to 15fps in 640x480, Up to 20fps in 320 x 240.
- Motion JPEG video stream.

Hardware Specifications:

- 5.3VDC 1A Maximum
- Operating Temperature: 0°C ~ 60°C; Operating Humidity: 10% ~ 90%
- Dimensions: 48mm x 63mm x 21mm
- Weight: 75g
- For Indoor Use. Protective housing required for outdoor use.

### **1.2. iCAMView as a Remote Surveillance System**

Once iCAMView is installed, the user can check any of the connected PC cameras using a standard web browser. The user can monitor and control these cameras simply by entering the IP address shown on the LCD into a Browser.

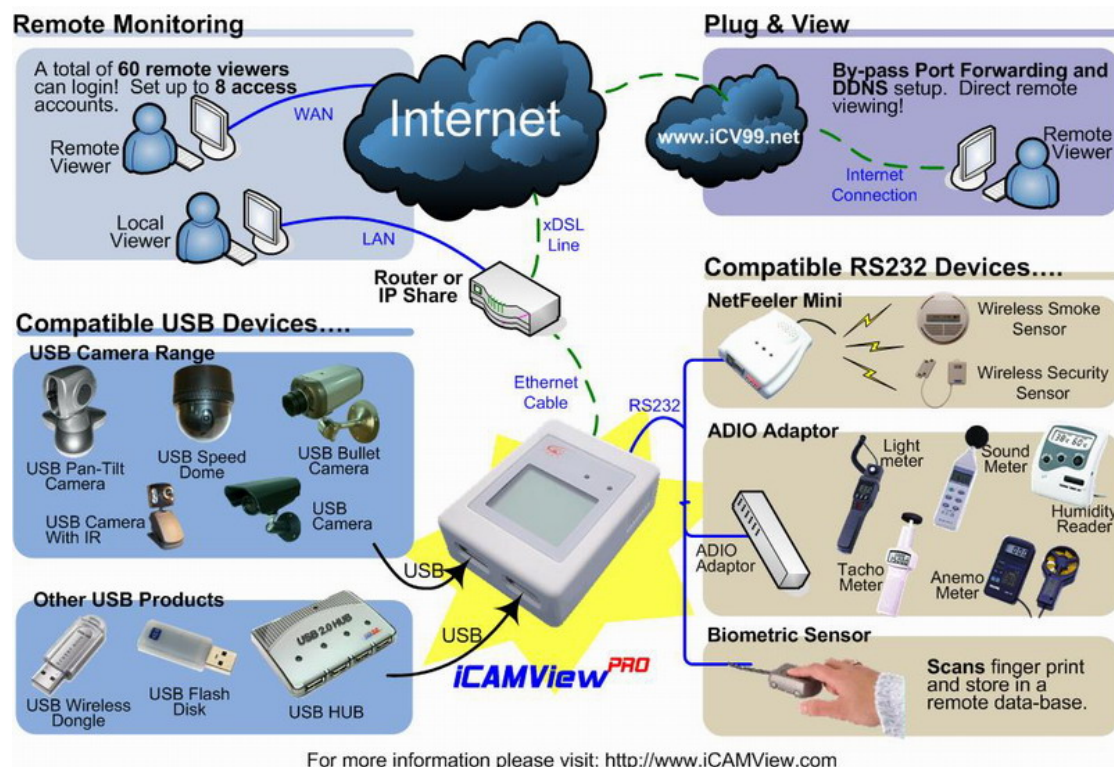


Fig.1 iCAMView Network Diagram

### 1.3. Package Contents

The package contains the following items;

1. iCAMView PRO server.
2. USB Camera (where applicable)
3. Quick Installation Guide.
4. Utility CD, containing,
  - a. iCAMView Utility: to configure IP address, update the firmware, etc.
  - b. iMultiView: to monitor multiple ICAMView cameras.
  - c. Time Server: Time adjustment utility.
  - d. Adobe Acrobat 5.0 Reader.
  - e. iCAMView User Manual, and
  - f. Driver for USB Camera.
5. Slim Ethernet cable.
6. Power adaptor.

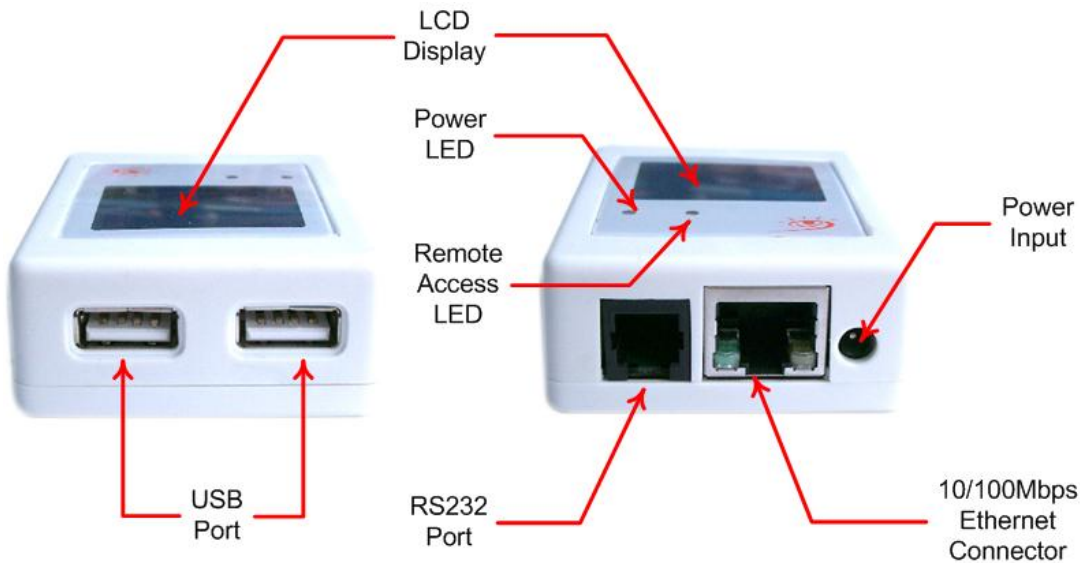


Fig.2 iCAMView Front and Back view

LED Status Indicators on ICAMView		
Light color	Signal definition	Condition description
RED	Power state	On: Normal power
BLUE	Logon state	On: When there is user logon and image is being accessed.

Fig.3 iCAMView Status LED Indicator

Light indicators on iCAMView LAN Port LED	
Light color	Condition description
Green	When On: Internet speed is at 100M When flashing: Data transmitting / receiving
Yellow	On: Internet correspond speed is 10M Flash: Data transmitting / receiving

Fig.4 iCAMView LAN LED Indicators

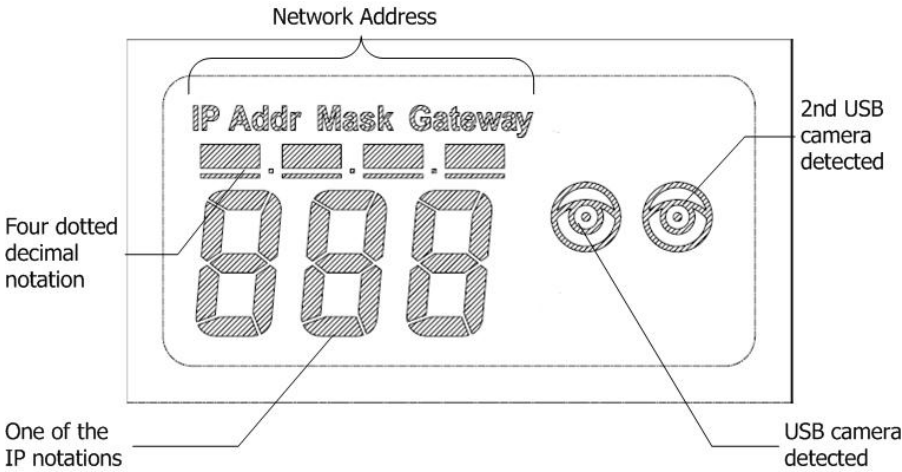


Fig.5 iCAMView LCD displayed info

## Chapter 2: Hardware Installation

The following details the hardware installation procedure for iCAMView IP camera.

### Step 1:

Connect the PC camera into the USB port of iCAMView.



### Step 2:

Connect the iCAMView to LAN by using the Ethernet UTP port.




### Step 3:

Connect DC power adapter output into iCAMView socket, and plug the DC power input into the wall socket



### Step 4:

Wait a moment and the LCD will display the IP Address, Subnet and Gateway. Use a Browser to log into iCAMView Web Interface

The  icon on the LCD shows that a USB camera is connected.

The LCD display shows that two USB cameras are attached to the iCAMView.



## Chapter 3: Web Interface

### 3.1. Introduction

iCAMView is designed to work without having to install any software. All the necessary functions are built-into the unit.

1. Once you have finished the hardware setup shown in Chapter 2, note down the IP address shown on the LCD.
2. On a PC (located in the same LAN), open a Web Browser (eg.: Internet Explorer, Netscape, Mozilla Firefox or Opera).
3. Enter the IP Address as shown on the iCAMView LCD display and press **ENTER**.

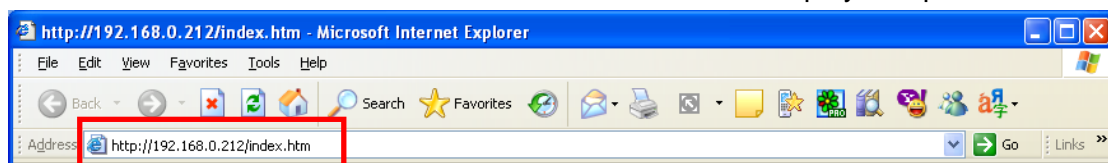


Fig.6 Enter iCAMView IP address

4. iCAMView main screen will appear. Click on **ActiveX** or **Java VM** icon to view.

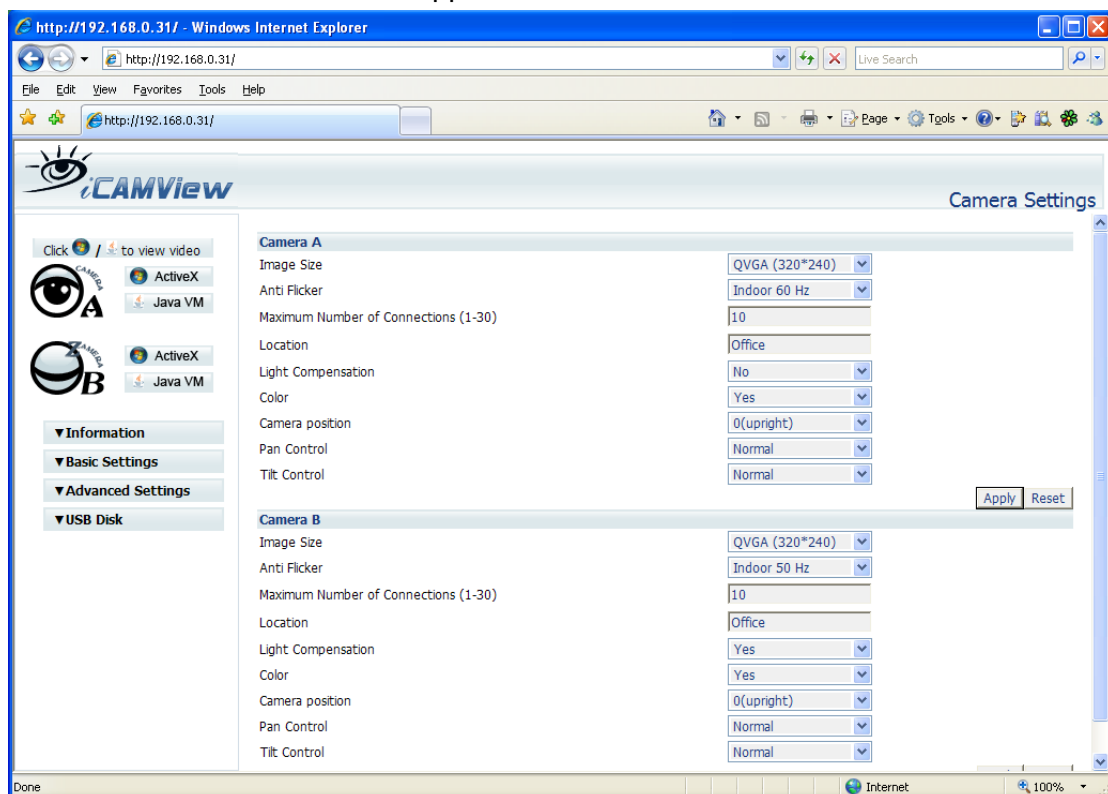


Fig.7 iCAMView main screen



## 3.2. Using the Web Interface

The iCAMView webpage main menu is divided into two sections. The selection menu on the left and display menu on the right. The selection menu consists of the following options:

### 3.2.1 View Video

### 3.2.2 Information

### 3.2.3 Basic Settings

### 3.2.4 Advanced Settings

### 3.2.5 USB Disk

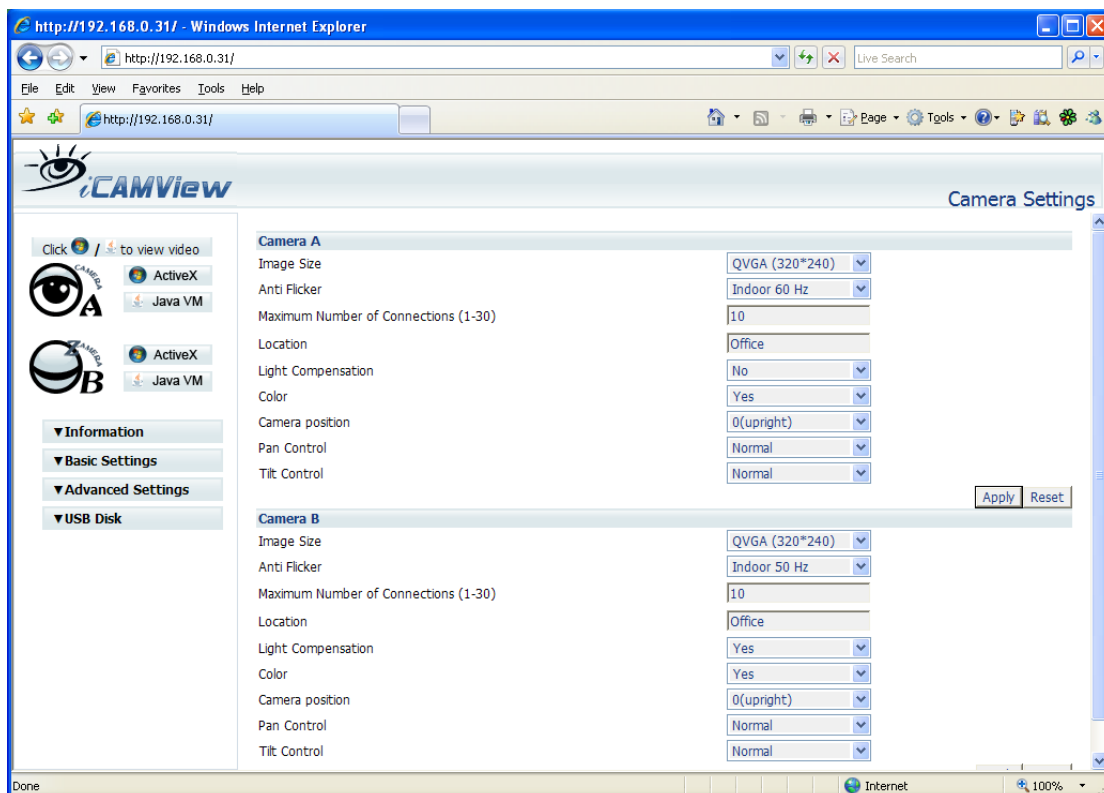


Fig.8 iCAMView Main Menu

When using iCAMView for the first time, check the following settings;

- Basic Settings → Camera Settings → Anti Flicker** Check that this is set to the correct lighting frequency. Change this to **Outdoor** if you intend to point the camera outside. Click **Apply** to save the configuration.
- Manually adjust the camera lens for best results.

### 3.2.1 To View Video

To view video from the connected camera, click on either **ActiveX** or **Sun Java** next to an opened eye.

By default the first USB camera connected to iCAMView will be considered Camera A.



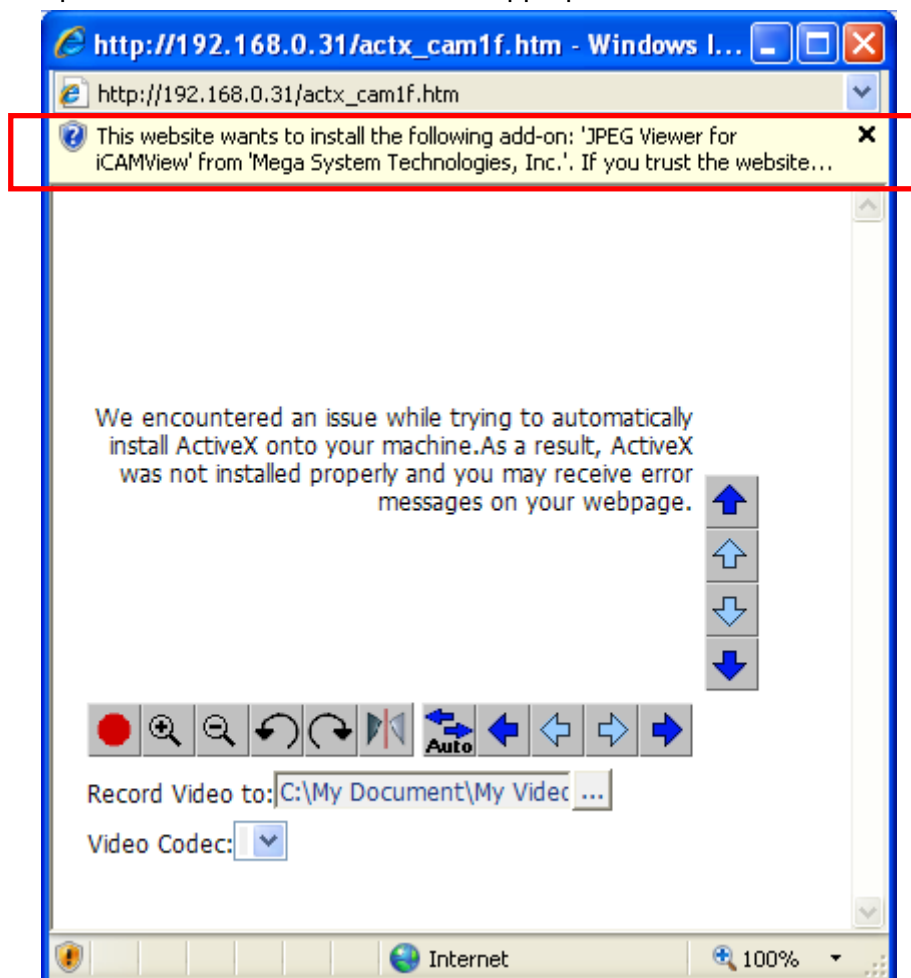
**Note:**

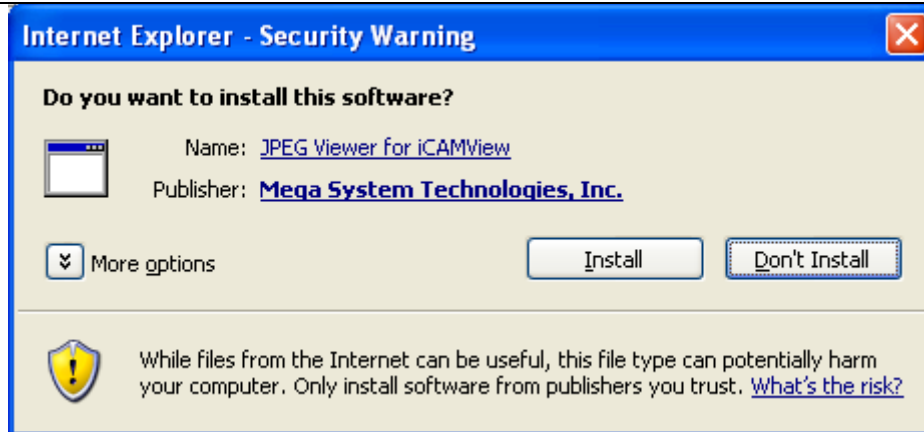
**ActiveX** can only function in Windows platform and a plug-in has to be installed on the client's computer. If this cannot be installed you will have to use **Sun Java** to view the video feed. Users who are not using Windows based Operating System can view the video feed by clicking **Sun Java**.

### Using ActiveX Controls:

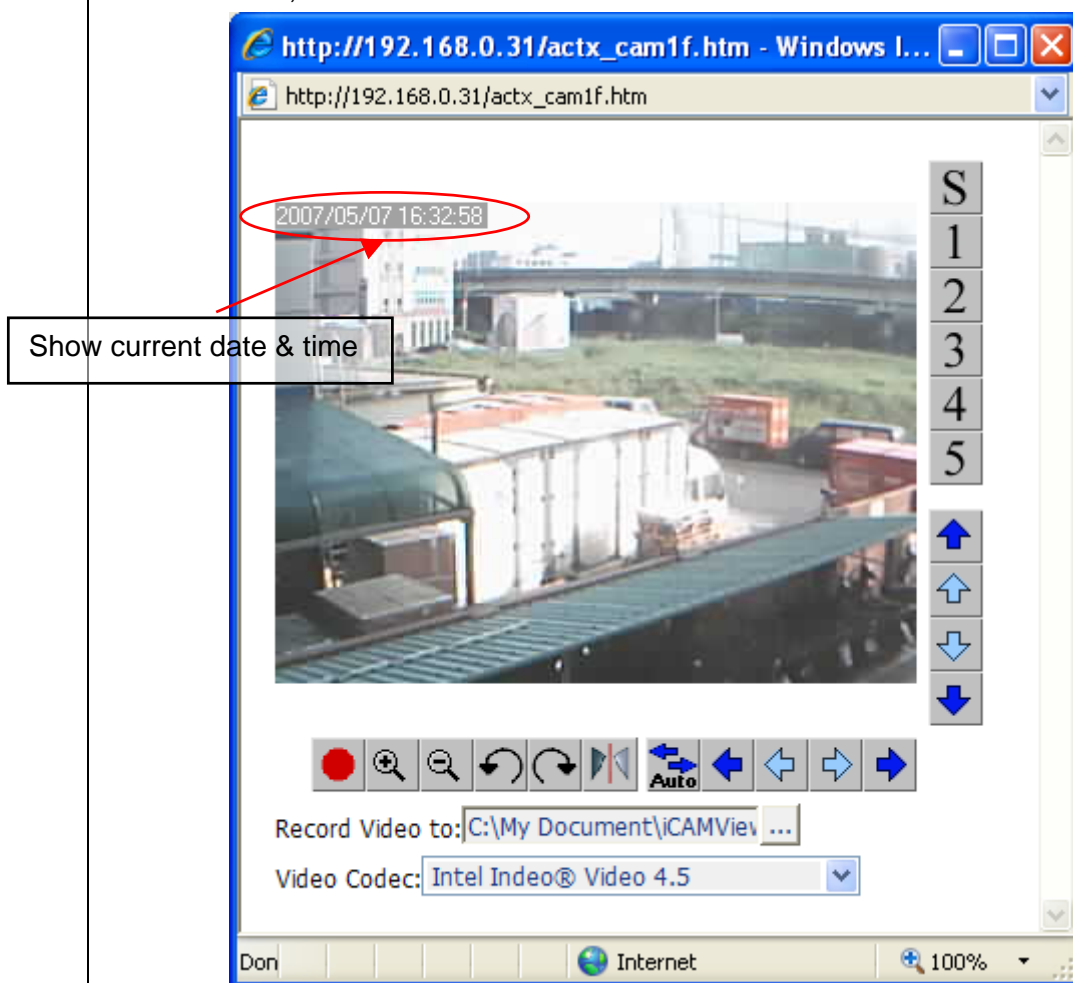
When using ActiveX for the first time, Windows will ask you to download the ActiveX Controls.

Click the top bar to download and install the appropriate ActiveX controls.





Once installed, the video will stream.



**Note:**


Make sure to adjust the USB camera lens for best picture quality.

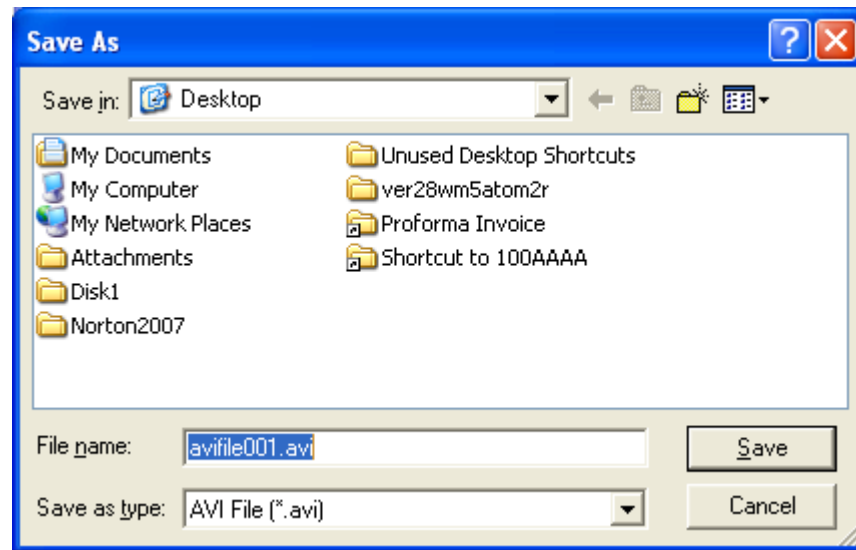


Click the record button to start video recording.

The default directory is; **C:\My Document\iCAMView\**

The video will be saved in the following format;  
**CMV20060710123058.avi** [CMV] [yyyy] [mm] [dd] [tmmss].avi

To change the saved location and filename. Click  and the **Save As** window will pop up. Choose an alternate location or filename.



To change Video Codec, click  Click **Save** to confirm changes.

**Note:** The availability of Codec depends on whether the individual user has it installed on the PC or not. Download and install Windows Media Player 10 to enable MPEG4 codec.



Digital Zoom In, Digital Zoom Out



Rotate Left, Rotate Right



Flip the image vertically.



**HotSpot icon.** Each item corresponds to HotSpot location set in **Basic Setting → Patrol Settings → Hotspot Setting**. Click to jump to the pre-set location.



Click **S** to recalibrate and center the camera.



**Note:**

**HotSpot** icons will not show if you do not have either; (1) a CM03a Pan Tilt camera, (2) administrator permission or (3) operator permission.



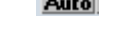
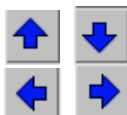
**Directional Tool.** Click to move the camera *1 degree* in the direction of the arrow.



**Note:** Directional Tool can also be used with a Static Camera when viewing in resolution less than 320x240.



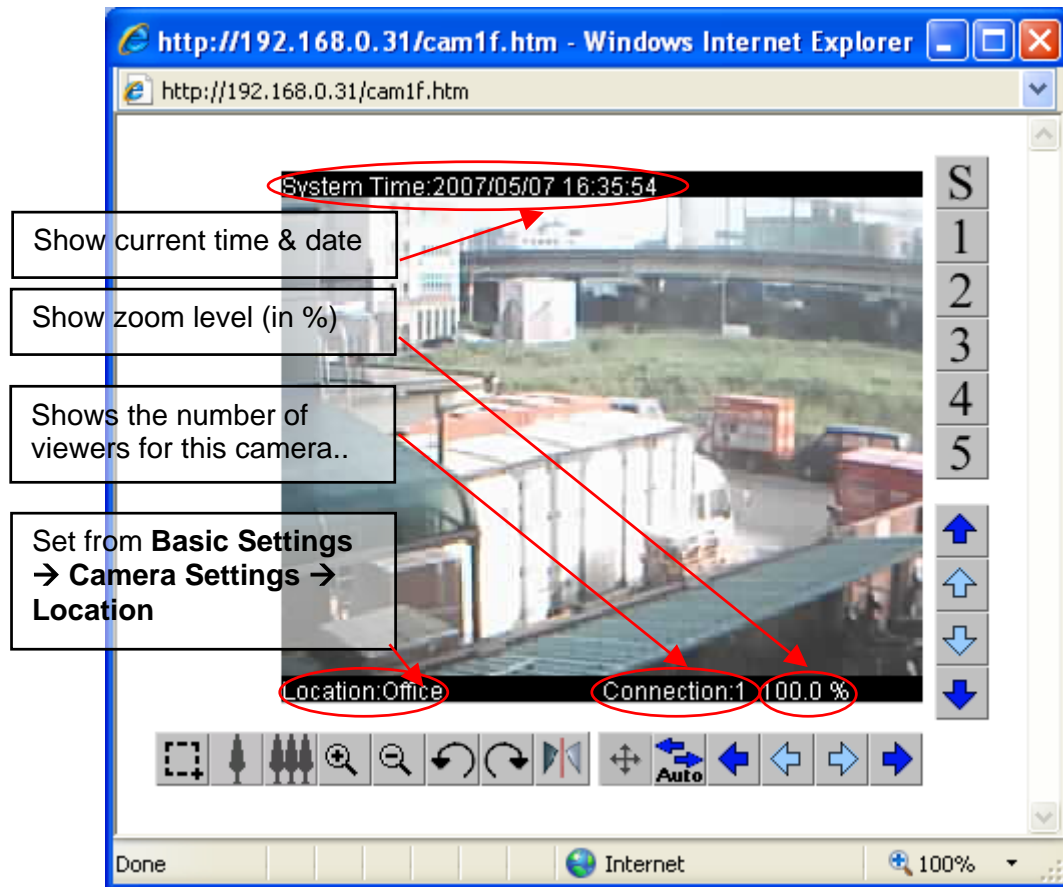
**Directional Tool.** Click to move the camera *5 degrees* in the direction of the arrow.



**Auto Patrol icon.** Click to enable auto patrolling. Auto Patrol is only available when a Pan Tilt camera is connected.

### Using Sun Java Controls:

Once you click on Sun Java the following pop-up window will appear.



Click this to Marquee an area and zoom into that area.



Click this to reduce the image resolution.



Click this to increase the image's resolution.



Click to digitally zoom in or out.



Click to rotate the image.



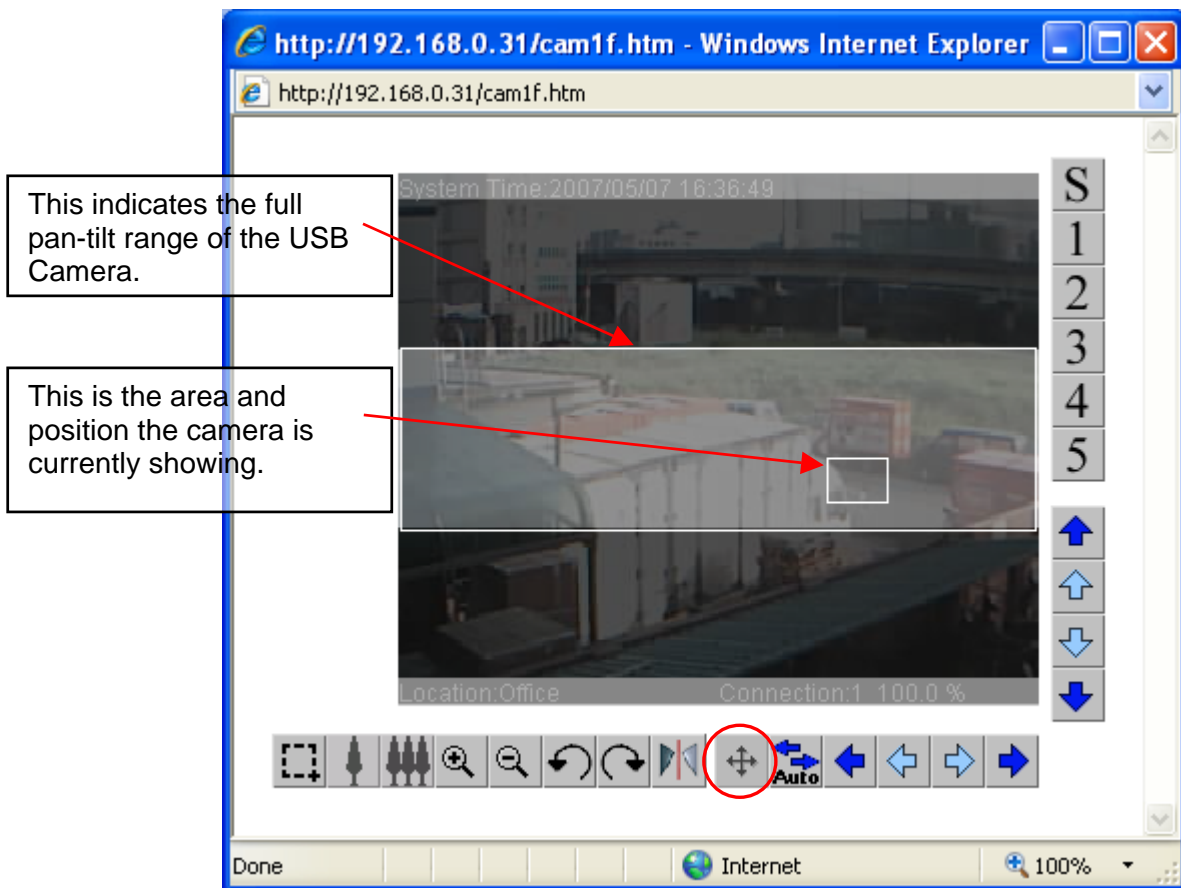
Flip the image vertically.



Click this to bring up the **On Screen** PanTilt Controls. Click within the full pan-tilt range of the camera and it will jump to the location.

**Note:**

The **On Screen** icon will not show if you do not have either; (1) CM03a Pan Tilt camera, (2) administrator permission or (3) operator permission.



### 3.2.2 Information

The **Information** tab contains the following subsections;

- 3.2.2.1 System Status,
- 3.2.2.2 Current Connections, and
- 3.2.2.3 Event Log.
- 3.2.2.4 NetFeeler Lite

#### 3.2.2.1 System Status

This webpage displays all the information relating to iCAMView. This page is viewable by viewers of all permission levels.

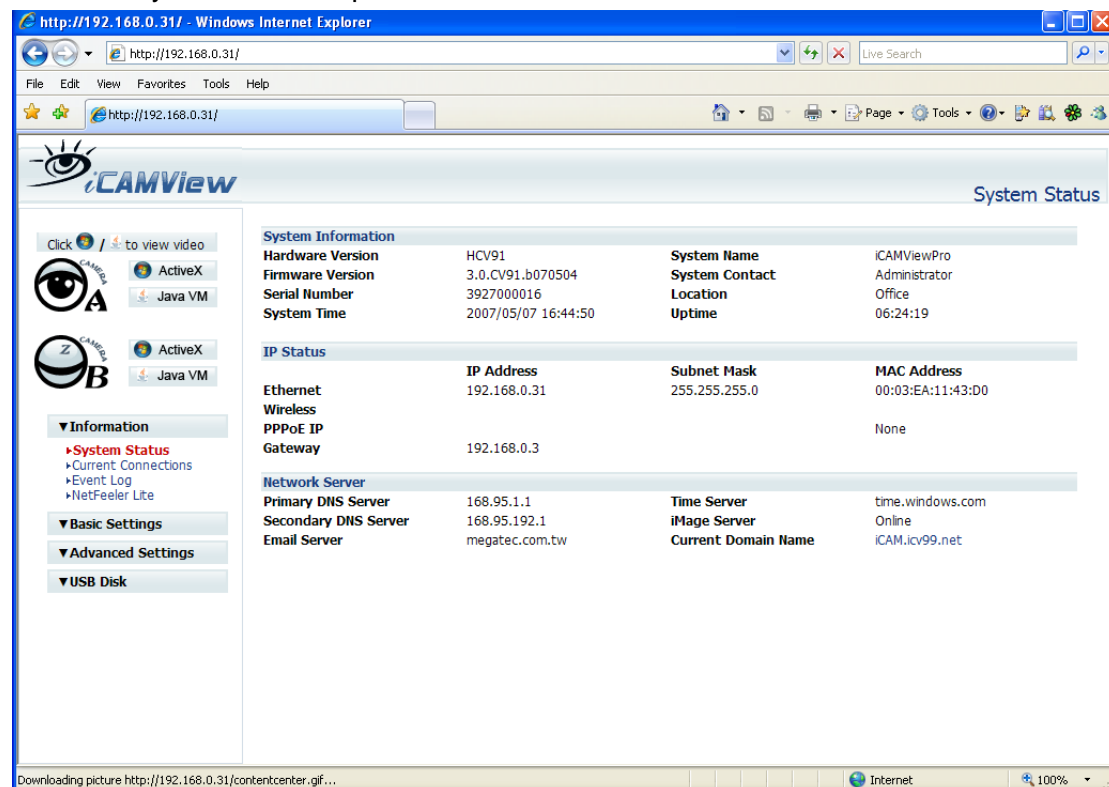


Fig.9 iCAMView System Status page

#### i. System Information

This section shows general hardware information such as the Hardware and Firmware Version, the serial number, current / local System Time, the system name, contact, location and uptime.

#### ii. Network Status

This section shows the network information. The MAC Address is unique to each iCAMView system.

#### iii. Camera A / B Information

This section shows the Vendor ID, Product ID and Sensor type used by the camera. These information are essential in determining if the 3<sup>rd</sup> party USB camera is iCAMView compatible. Check with your vendor for compatibility.

### 3.2.2.2 Current Connections

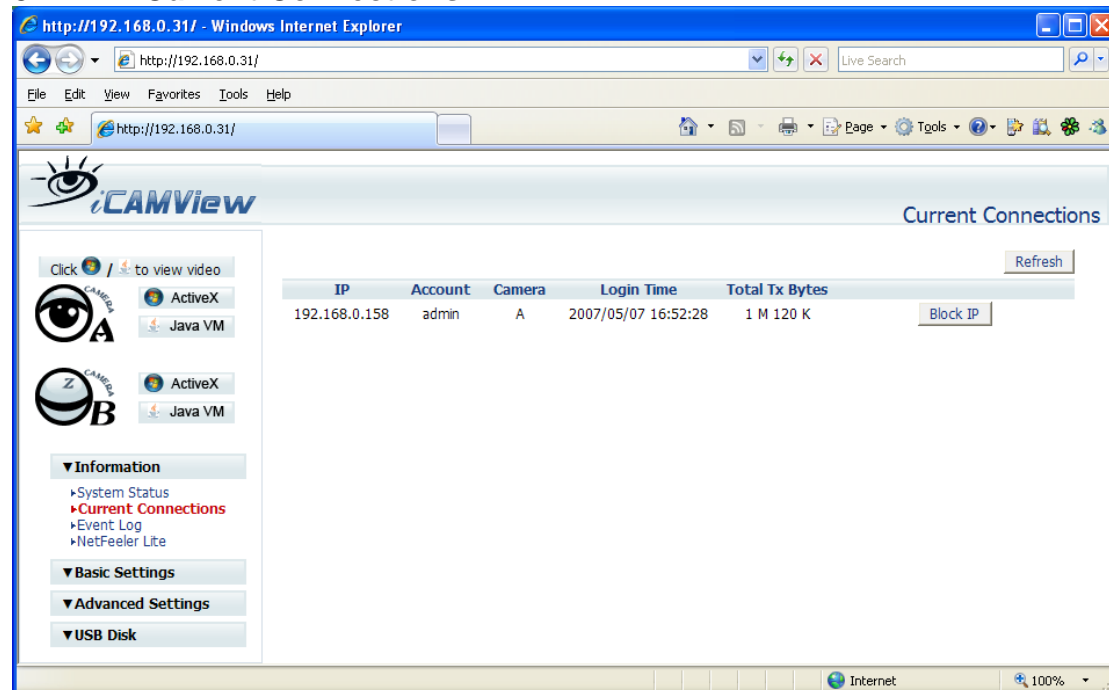


Fig.10 iCAMView Current Connections

The **Current Connections** page shows all the users currently viewing either Camera A or Camera B. It also lists the login time and total bytes received.



**Note:** Administrator privilege is required to view and use **Block IP**. Otherwise, the **IP** and **Account** details will be hidden and **Block IP** function disabled.

IP	Account	Camera	Login Time	Total Tx Bytes	
*.*.*.*	*****	A	2007/01/01 00:50:23	40 M 529 K	Block IP
*.*.*.*	*****	A	2007/01/01 00:51:36	32 M 242 K	Block IP

Fig.11 iCAMView Current Connections: Operator Permission

Click **Block IP** to block or disable the account of any errant viewer.

To unblock the IP goto **Basic Settings** → **Account Settings** → **Blocked IP List** and delete the blocked IP Address from the **Blocked IP List**.

### 3.2.2.3 Event Log

This section will keep a record of all events that occurred in iCAMView. The user can Refresh, Clear or Save the log file. There is also an option to sort the logs according to "Level" or "Type". iCAMView can log up to 2,000 events.

Once the number of events has reached the maximum limit, the oldest event will be removed for each new event logged.



**Note:** If you do not have Administrator privilege, the **User Name** and **IP Address** will be hidden. Example: Camera A: user \*\*\*\*\* connected from IP: \*.\*.\*.\*



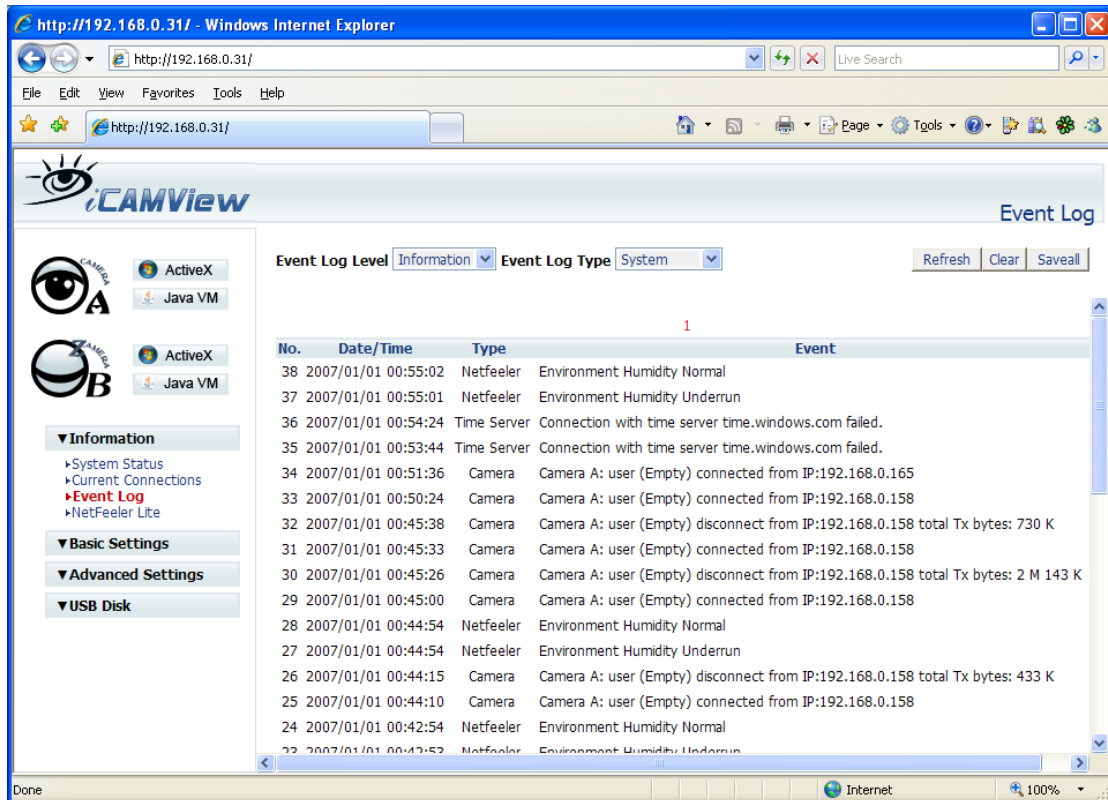


Fig.12 iCAMView Event Log: Administrator privilege.

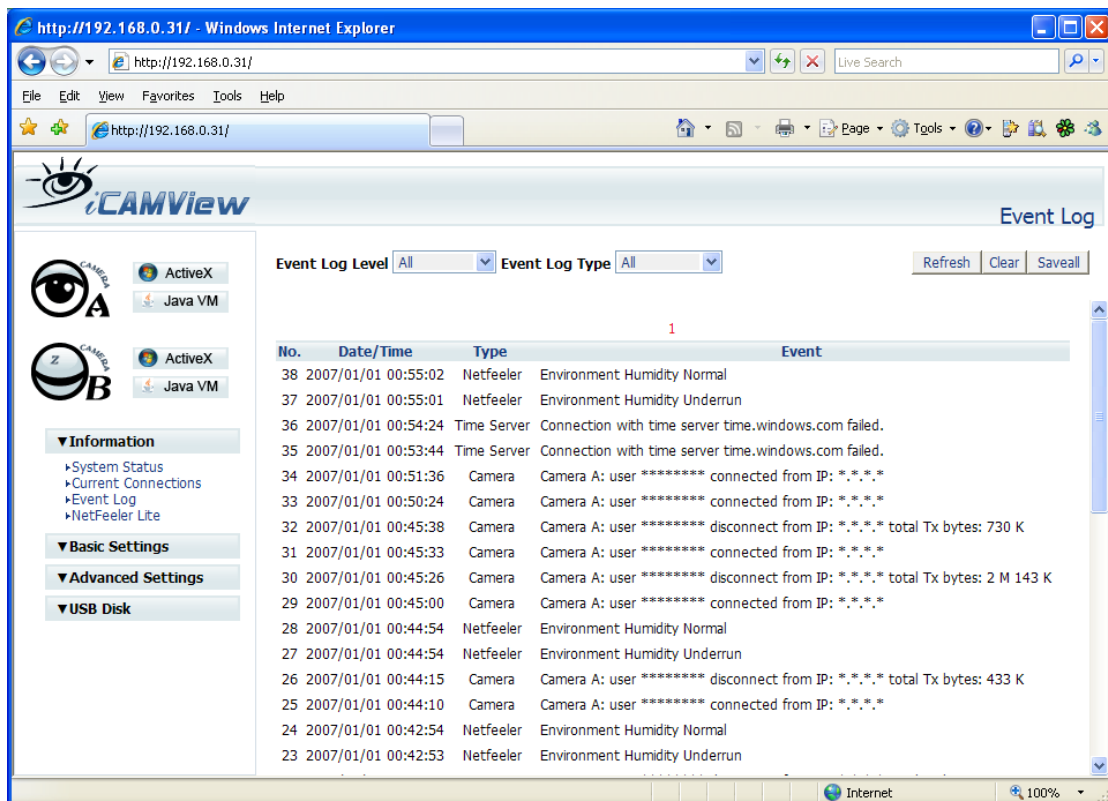


Fig.13 iCAMView Event Log: Operator privilege.

### 3.2.2.4 NetFeeler Lite (*only when such a device is connected*)

This section becomes available if an Environment Sensor called NetFeeler Lite is connected.

NetFeeler Lite is able to display; Temperature and Humidity reading, provide feedback from water sensor, wireless gas, smoke and up to 7 door/window sensors.

This page is viewable by viewers of all permission levels.

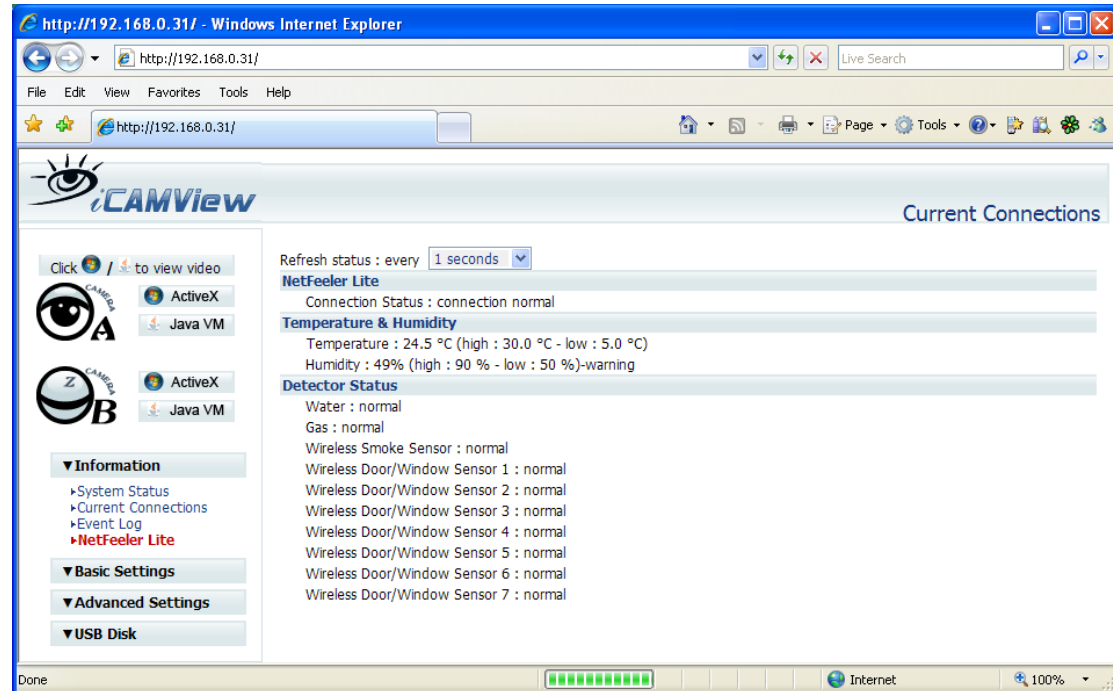


Fig.14 iCAMView Current Connections

### 3.2.3 Basic Settings

The following option allows the user to customize their unit.

#### 3.2.3.1 Camera Settings

#### 3.2.3.2 Patrol Settings\*

#### 3.2.3.3 NetFeeler Lite Settings\*

#### 3.2.3.4 Network

#### 3.2.3.5 Wireless Setting

#### 3.2.3.6 Account Settings

#### 3.2.3.1 Camera Settings

Use this section to set up the USB camera.

##### i. Setting up Camera A (or Camera B)

Camera A	
Image Size	QVGA (320*240) ▼
Anti Flicker	Indoor 60 Hz ▼
Maximum Number of Connections (1-30)	10
Location	Office
Light Compensation	Yes ▼
Color	Yes ▼
Camera position	0(upright) ▼
Pan Control	Normal ▼
Tilt Control	Normal ▼

Fig.15 Individual Camera Configuration

#### Image Size

User can select the following image size;

QQVGA (160\*120),  
 QCIF (176\*144),  
 QVGA (320\*240),  
 CIF (352\*288),  
 VGA (640\*480).

#### Anti Flicker

Choose between Indoors 50Hz, 60Hz or Outdoors. For best results when directing the camera to bright sources / windows, select **Outdoors**.



#### Note:

If you do not choose the right frequency, the image will flicker or lines will appear on the images.

#### Maximum Number of Connections (1-30)

Use this to limit the total number of users that can view this camera at the same time.

#### Location

Enter a suitable location / name for the camera. This information will be displayed when viewing video using Java VM.

#### **Light Compensation**

Choose **Yes** and iCAMView will increase the lighting of the image. This is useful when monitoring indoors.

Choose **No** if you do not want iCAMView to compensate for bright indoor lighting and view the images as is.

#### **Color**

Choose **Yes** for color and **No** for black and white display. Black and White display results in slightly faster FPS (Frames Per Second) video.

#### **Camera Position**

Use this option to right the image when iCAMView is installed on the ceiling or wall. Select either; 0 degree (upright), 90, 180 (upside down), or 270 degree.

#### **Pan Control**

Use this function to reverse the Pan direction.

#### **Tilt Control**

Use this function to reverse the Tilt controls, if necessary.



#### **Note:**

Always click **Apply** to save any changes made. Otherwise, the changes will be lost.

#### **3.2.3.2 Patrol Settings (*only if CM-03a camera is connected*)**

This option is only available if a specific USB PanTilt Camera (Model No.: CM03a ) is used. Otherwise the function remains hidden.

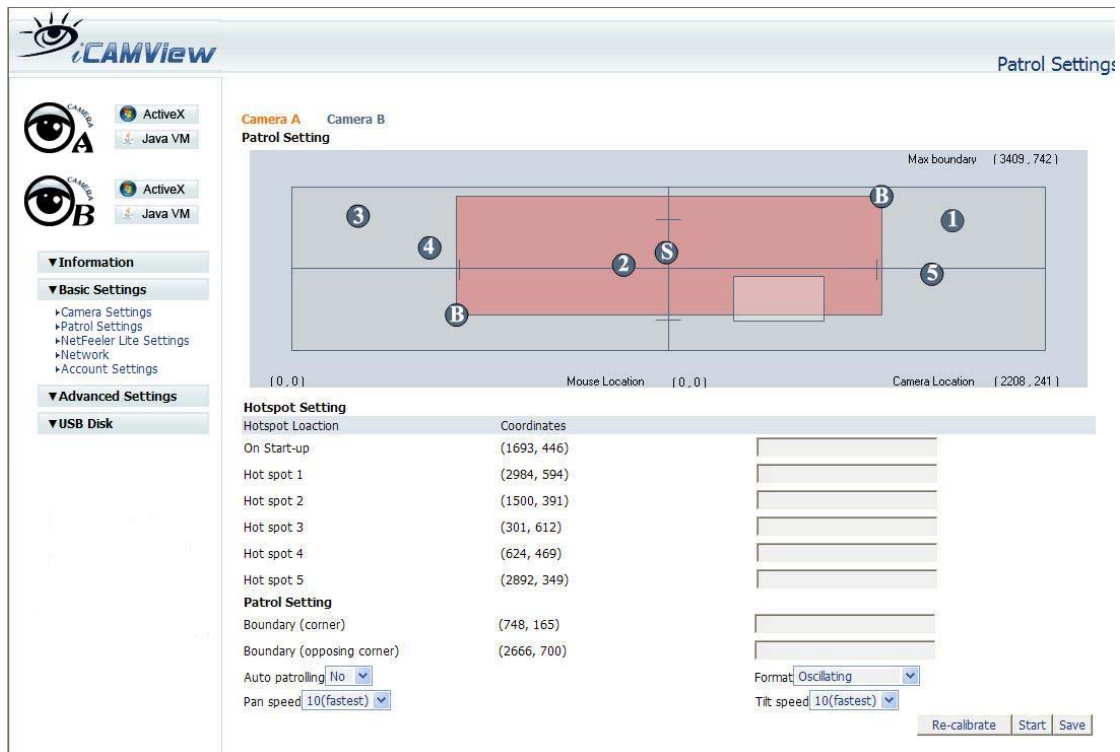


Fig.16 iCAMView Patrol Settings

### i. Patrol Setting

This section allows the user to define hotspots, required patrol boundary, and see where the current camera position.

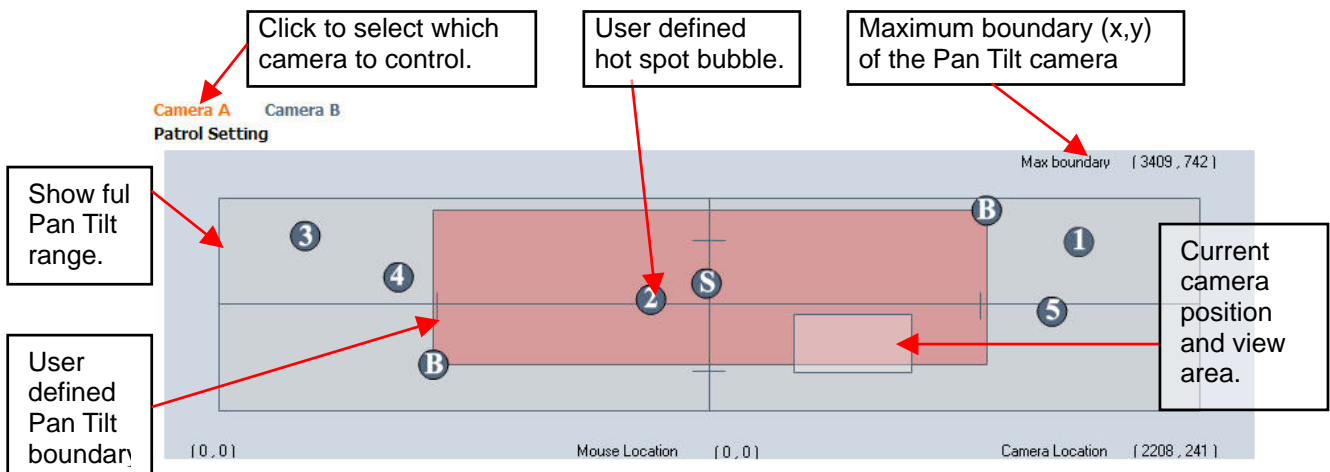


Fig.17 iCAMView Patrol Setting / Controls

### HotSpot Settings

This part shows the hotspot coordinates and the Administrator can give each location a name. Click and hold on the Hotspot bubble in the above patrol control to re-define the coordinates.

Hotspot Setting	
Hotspot Location	Coordinates
On Start-up	(1693, 446)
Hot spot 1	(2984, 594)
Hot spot 2	(1500, 391)
Hot spot 3	(301, 612)
Hot spot 4	(624, 469)
Hot spot 5	(2892, 349)

Patrol Setting	
Boundary (corner)	(748, 165)
Boundary (opposing corner)	(2666, 700)
Auto patrolling	<input type="button" value="No"/>
Pan speed	<input type="button" value="10(fastest)"/>

<input type="text"/>	<input type="button" value="Re-calibrate"/>	<input type="button" value="Start"/>	<input type="button" value="Save"/>
----------------------	---------------------------------------------	--------------------------------------	-------------------------------------

Enter a name for the selected hotspot

### Boundary

This defines the camera patrol boundary. Click and hold on either one of the two boundary bubble to redefine the boundary.

### Auto Patrolling

Select **Yes** to start auto patrolling function.

Select **No** to stop the patrolling function.

### Format

Choose from 5 different patrolling formats;

- Oscillating – The camera will pan and tilt at the same time within the user defined boundary. Camera will oscillate from left to right and back.
- Square – The camera will patrol along the user defined boundary in a clock wise manner.
- Pan only – The camera will perform Pan function only.
- Tilt only – The camera will perform tilt function only.
- In sequence (1-5) – The camera will jump to each Hotspot location in sequence and wait for 10 seconds in each spot.

### Pan speed / Tilt Speed

Use this to define the Pan and Tilt speed. By default this is set to **10**, the fastest setting. The administrator can further customize by choosing different Pan / Tilt speed.

#### 3.2.3.3 NetFeeler Lite Settings (*only if device is connected*)

This additional option can be seen if a NetFeeler Lite is connected.

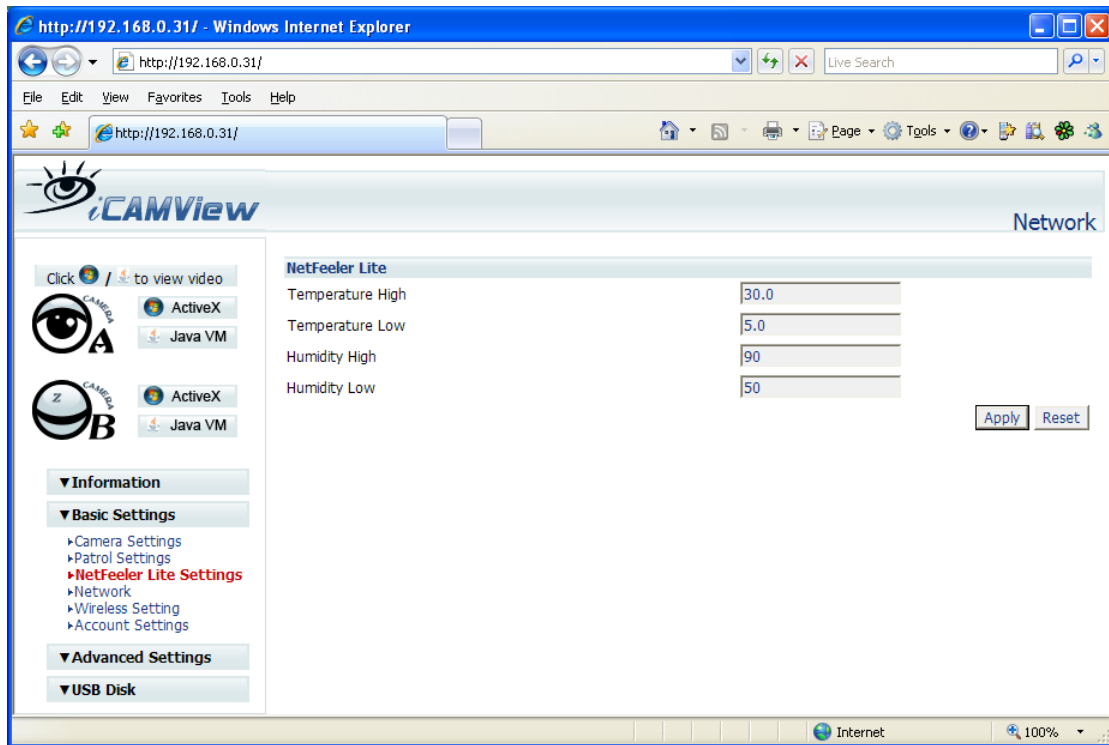


Fig.18 iCAMView NetFeeler Lite Settings

#### i. NetFeeler Lite

##### Temperature High / Low

Select the maximum / minimum temperature range. If the temperature crosses these figures, NetFeeler Lite will send out an alarm.

##### Humidity High / Low

Select the maximum / minimum humidity range. If the humidity level crosses these figures, NetFeeler Lite will send out an alarm.

### 3.2.3.4 Network

This option determines iCAMView **Network** settings.

#### i. IP Address

By default, the IP address acquisition is set to using DHCP.

IP Address	
IP Address	192.168.0.31
Subnet Mask	255.255.255.0
Gateway	192.168.0.3
Obtain an IP address*	Using DHCP

Fig.19 iCAMView IP Address Settings

##### IP Address

This determines iCAMView LAN IP address.

##### Subnet Mask

Enter iCAMView **Subnet Mask**. The value is normally 255.255.255.0

### Gateway

This item is to set iCAMView Gateway.



To learn more about the above, see **Appendix C: IP address, Subnet and Gateway**

### Obtain an IP address

This allows the user to choose either to set iCAMView LAN IP address; manually OR using DHCP (default).



#### Note:

Click **Apply** to confirm. iCAMView will reboot. You **MUST** now manually enter the NEW IP address in your Browser in order to open the Web Interface.

## ii. DNS Server IP

Fig.20 iCAMView DNS Server IP

### Primary DNS Server IP

This item sets iCAMView primary DNS Server IP address. By default this is set to 168.95.1.1

### Secondary DNS Server IP

Use this to set iCAMView **Secondary DNS Server IP** address. iCAMView will use the **Secondary DNS Server IP** address if the **Primary DNS Server IP** address is not working. The default IP is 168.95.192.1

## iii. LAN Port Number

Fig.21 iCAMView LAN Port Settings

### Web access Port Number

This determines the LAN port from which the webpage (using HTTP protocol) is accessible thru your Router. By default the LAN port number is **80**.

If this port is changed, say to 82, then `http://xxx.xxx.xxx.xxx:82` (where xxx.xxx.xxx.xxx is iCAMView LAN IP address as shown on the LCD) must be used in order to access iCAMView web interface in LAN.

### Video access Port Number

This determines the LAN port from which the video image (using UDP protocol) is streamed thru your Router. By default the LAN port number is **9001**.



#### iv. Dynamic DNS

This is a free service that allows the user to alias a dynamic IP address to a static hostname. No matter how many times your ISP change the IP, you will be able to locate iCAMView.

Fig.22 iCAMView Dynamic DNS settings

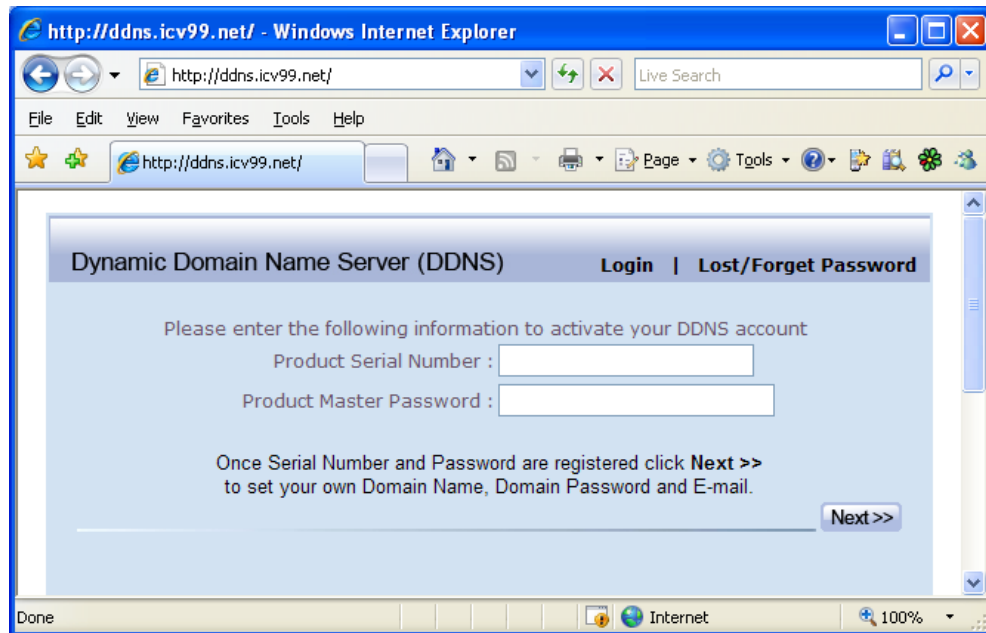
#### Enable iCAMView free Domain Name (current free Domain Name is \*\*\*)

Each iCAMView unit is shipped with a default domain name **\*\*\*.icv99.net**, where **\*\*\*** is the unique 10 digit serial number located at the back of iCAMView.

To activate this feature;

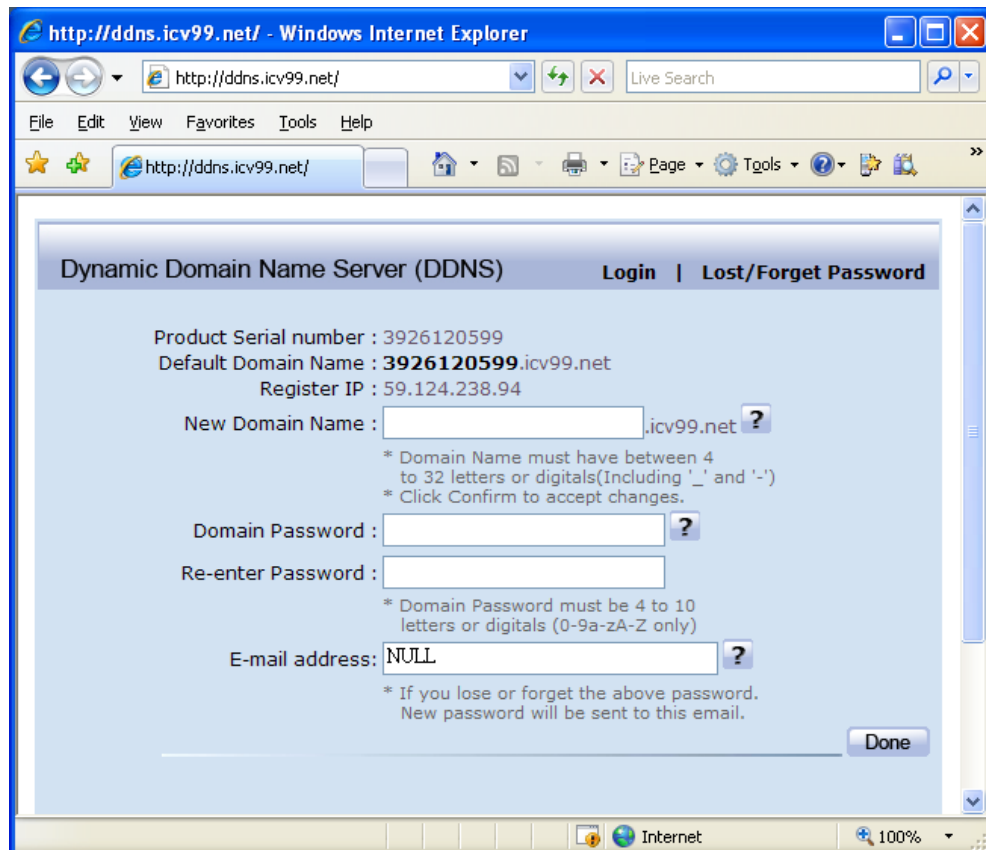
1. Select **Enable** from the drop-down menu and click **Apply**.
2. Activate the feature by logging on to <http://ddns.icv99.net> and click the **Activate** button.

3. Register by entering the Product **Serial Number** and **Master Password** (this is shown at the back of the iCAMView unit) and click **Next >>**.

**Note:**

In order to Activate the unit, iCAMView DDNS feature **MUST** be **Enabled** first under Basic Settings → Network → iCAMView Dynamic DNS. Remember to click **Apply** to confirm.

- Once registered; user can enter a New Domain Name, set a Domain password and E-mail address. Click **Done** to save changes.



**Note:**

Enter a valid Email address. In the event you have forgotten the password to your DNS account, a new password will be sent to this email address upon request.

5. Registration complete. Account details shown as follows;

Dynamic Domain Name Server (DDNS) [Login](#) | [Lost/Forget Password](#)

Product Serial number : 3926120599  
 Default Domain Name : **iCAM**.icv99.net  
 Register IP : 59.124.238.94

New Domain Name : .icv99.net ?  
 \* Domain Name must have between 4 to 32 letters or digitals(Including '\_' and '-')  
 \* Click Confirm to accept changes.

Domain Password :  ?  
 Re-enter Password :   
 \* Domain Password must be 4 to 10 letters or digitals (0-9a-zA-Z only)

E-mail address :  ?  
 \* If you lost or forget the above password. New password will be sent to this email.

[Confirm](#) [Confirm](#) [Logout](#)

**Note:**

In order to view from remote, Port Forwarding must be configured at your Router. See Appendix A for more information.

6. With the registration complete, the following additional information can be seen under **Information → System Status → Network Status**.

Network Server			
Primary DNS Server	168.95.1.1	Time Server	time.windows.com
Secondary DNS Server	168.95.192.1	Image Server	Online
Email Server		Default Domain Name	steven.icv99.net

### Use other Dynamic DNS service provider

In addition to <http://ddns.iCV99.net>, iCAMView can be configured to register with other Dynamic DNS providers. The following free DDNS service providers are supported;

- 3322.org

- dyn.chamber.ee
- DHS International
- DynDNS Free
- DynDNS Custom
- myDDNS
- ZiVE

Click **Update** to get latest list of Service Providers.

**Note:**

The number of available DDNS service providers depends on the region iCAMView is purchased.

In general, to register a Domain Name;

- a. Go to the DDNS provider website listed above.
- b. Register a new user account and password with the DDNS provider.
- c. Choose a Domain Name to point to your current Dynamic IP
- d. Enter information obtained in (b) and (c) into iCAMView DDNS fields.

**Domain Name**

This is the Domain Name you have created from the above selected DDNS provider.

**Login Name**

This is the Login / Account name that you have created with the selected DDNS provider.

**Login Password**

Enter the Password you have assigned to your DDNS Account.

**Use Public IP to update DDNS**

Choose **Yes** to ensure that iCAMView uses the WAN / Public IP to update the selected DDNS server.

**Automatically update DDNS**

This field allows the user to determine the interval (in minutes) between updates. Choose an interval between 1 to 10080 (7 days) minutes.

**Note:**

Setting a low interval value may result in a ban by your DDNS provider.

**v. PPPoE**

Use this option to allow iCAMView to connect to the internet directly using your xDSL modem. Once set-up, iCAMView will connect directly to the Internet without going through a router. The LCD will display the current WAN / Public IP instead of the LAN IP Address.

Fig.23 iCAMView PPPoE setting

**When Connection should be made**

- Disabled : Default setting.
- Connect always : iCAMView will automatically dial up and maintain continuous connection.

**Automatically reconnect**

Enter the interval between each reconnection and number of automatic reconnections. The reconnection interval can be set between 30 to 9999 seconds.

**Login Name**

Enter the login name assigned by your ISP.

**Login Password**

Enter the password assigned by your ISP.

**3.2.3.5 Wireless Setting**

This option determines iCAMView **Wireless Network Settings**. This option is only configurable if a compatible wireless USB dongle is attached. To set this up, you'll first need to use the LAN IP (as shown on the LCD) to access iCAMView.

**Note:**

Once the wireless configuration is setup, the wireless IP address will be shown on the LCD instead of the LAN IP. To check the LAN IP thru the LCD, unplug the wireless USB dongle.

**i. IP Address**

Refer to section 3.2.3.4 (i) above. This will be the **wireless** LAN IP. It will be different from the LAN IP.

**ii. DNS Server IP**

Refer to section 3.2.3.4 (ii) above. This will be the **wireless** DNS server IP. It can be different from that of the LAN IP.

**iii. Wireless**

Connect a compatible Wireless USB dongle to enable this feature.

Fig.24 iCAMView Wireless Setup

### Connect to Wireless AP

When a compatible Wireless USB dongle is connected, select **Yes** and click **Search Wireless AP** button to have it search for nearby Access Points (AP).

Once detected all available AP will be displayed on the table to the right. Select the preferred AP and click << button to add it to the **SSID** field.

Fig.25 Wireless AP detected and preferred AP selected

### Authentication

Select either; Open System or Shared Key. Check the AP for the appropriate authentication method in use.

### WEP Encryption

Select from either; none, 64-bit key or 128-bit key. Check the AP for the appropriate encryption used.

### WEP Key (10 or 26 hex digits)

Key in the password used.

## 3.2.3.6 Account Settings

This webpage allows you to set up to Eight (8) different user accounts with different access permission level to iCAMView. This section can only be edited by an administrator.

### i. User Account

User Account					
User Name	Password	Permission	IP Filter	Max. FPS	Viewing Hour
<input type="text"/>	<input type="password"/>	Administrator	*.*.*.*	Unlimited	<a href="#">Configure</a>
<input type="text"/>	<input type="password"/>	Operator	*.*.*.*	21	<a href="#">Configure</a>
<input type="text"/>	<input type="password"/>	Viewer	*.*.*.*	21	<a href="#">Configure</a>
<input type="text"/>	<input type="password"/>	No Access	*.*.*.*	21	<a href="#">Configure</a>
<input type="text"/>	<input type="password"/>	No Access	*.*.*.*	21	<a href="#">Configure</a>
<input type="text"/>	<input type="password"/>	No Access	*.*.*.*	21	<a href="#">Configure</a>
<input type="text"/>	<input type="password"/>	No Access	*.*.*.*	21	<a href="#">Configure</a>
<input type="text"/>	<input type="password"/>	No Access	*.*.*.*	21	<a href="#">Configure</a>

Fig.26 User Account Settings

**User Name**

Assign a **User Name** or “account” name. The administrator can set a name consisting up to 32 case sensitive characters.

**Password**

Assign a password to the account. The administrator can set up to 32 case sensitive passwords.

**Permission**

This sets the access level to individual user accounts.

**Administrator:** An Administrator has full access including write permission to all menus and sub-sections. Only an Administrator can see the **User Name** and **IP address** fields or set the camera access **Permit Hours** to Operator or Viewer accounts.

**Operator:** The user can access all menus, but does not have permission to amend the data fields.

**Viewer:** The user can only view camera within the time specified in **Permit Hours**. The user does not have write permission, can only view **Camera A/B** and read the **Information** section.

**No Access:** This disables either of the above two permission levels given to a user.

**Note:**

An **Administrator** account must be set before setting up either an **Operator** or **Viewer** account. An administrator account fields, in this case, cannot be left empty.

**IP Filter**

Use this feature to ensure that the user only login from the specified IP address. Leave as \*.\*.\*.\* to allow the user to log into the account from any place.

**Example:**

Entering **192.168.1.\*** will only allow User to access from **192.168.1.xxx** IP addresses.

### Max FPS

This allows the Administrator to limit the bandwidth allocated to each account. The Administrator can set a figure of **3** to **Unlimited** FPS (“frames per second”).

### Viewing Hours

When the Permission level is set to either **Operator** or **Viewer**, the Administrator can set the time to which the camera can be viewed.

	Begin (hh:mm)	End (hh:mm)
Permit Hours 1	00:00	23:59
Permit Hours 2		
Permit Hours 3		
Permit Hours 4		

Buttons: Apply, Reset, Close

Fig.27 iCAMView Permit Hours Configuration

Click **Configure** to bring up the Camera Viewing Hour window. The Administrator can set up to 4 different **Permit Hours** (in 24hr format). Click **Apply** to save. Click **Close** to exit without saving.



#### Note:

The **Reset** button will revert the fields to initial values prior to any changes being made. It does not undo changes once **Apply** has been clicked.

### ii. Block IP address

Blocked IP List

Add Block IP

192.168.0.199 Delete

192.168.0.93 Delete

Fig.28 Blocking LAN IP address

### Blocked IP List

This allows the Administrator to block specific LAN IP address from accessing iCAMView. Manually enter the IP address in dotted decimal notation and click **Add Block IP**. The blocked LAN IP address will be listed at the bottom.

Click **Delete** to remove it from the list.



### 3.2.4 Advanced Settings

This section allows the Administrator to set up some of the features available in the server.

#### 3.2.4.1 Event Notification

#### 3.2.4.2 Image Settings

#### 3.2.4.3 Email / FTP

#### 3.2.4.4 System Settings

#### 3.2.4.5 iMage Server

#### 3.2.4.6 Language

#### 3.2.4.7 About

#### 3.2.4.1 Event Notification

This section determines the type of event that will be included if an email notification is sent by iCAMView.



**Note:**

Administrator privilege is required to configure this section.

#### i. Event Notification

A total of 8 email recipients can be assigned to receive notification.

Fig.29 iCAMView Event Notification Page

#### Send Email

Select **Yes** to activate this feature. Default is **No**.

#### Email Server

A valid **Email Server**, User name and password must be setup for this feature to work. If this has not been setup, click **Edit** and to go to **Email / FTP** setup page. (refer to Section 3.2.4.3 below)



**Note:**

Email function can only work using standard Email Server and not Web based Email Server, such as yahoo.com / msn.com

#### Email Address Book

The available Email addresses are listed here. Refer to section 3.2.4.3 on how to enter an Email address to the **Address Book**.

To add an email address not already in the list, click **Edit**. iCAMView will ask you to save your configuration prior to leaving this page.

### Recipients

Up to 8 valid email accounts can receive **Email Notification**. To add an email address to the recipient list, click **<**. To remove, highlight and click **>**.



**Note:**

Only Email addresses that are listed in the **Email Address Book** can be added.

### Events

This section determines the events that the selected recipient(s) will receive by email. There are three types of events; Information, Warning and Error. Click **Select** to select the list of events the recipients will be notified.


Information	Yes	No
Start up	<input checked="" type="radio"/>	<input type="radio"/>
PPPoE connection successful	<input checked="" type="radio"/>	<input type="radio"/>
Registration with DDNS server completed	<input checked="" type="radio"/>	<input type="radio"/>
User logged in to view camera	<input checked="" type="radio"/>	<input type="radio"/>
User logged out from camera	<input checked="" type="radio"/>	<input type="radio"/>
Image recording of camera A	<input checked="" type="radio"/>	<input type="radio"/>
Image recording of camera B	<input checked="" type="radio"/>	<input type="radio"/>

Error	Yes	No
Server address was not specified	<input checked="" type="radio"/>	<input type="radio"/>
Invalid username or password entered for FTP server	<input checked="" type="radio"/>	<input type="radio"/>
FTP server no such file or directory	<input checked="" type="radio"/>	<input type="radio"/>
Invalid username or password entered for DDNS server	<input checked="" type="radio"/>	<input type="radio"/>
Registration with DDNS server failed	<input checked="" type="radio"/>	<input type="radio"/>
DDNS domain name does not exist	<input checked="" type="radio"/>	<input type="radio"/>

Warning	Yes	No
Server address can not be resolved	<input checked="" type="radio"/>	<input type="radio"/>
Connection with Email server failed	<input checked="" type="radio"/>	<input type="radio"/>
FTP server has no response	<input checked="" type="radio"/>	<input type="radio"/>
FTP server connection closed abnormally	<input checked="" type="radio"/>	<input type="radio"/>
Connection with DDNS server failed	<input checked="" type="radio"/>	<input type="radio"/>
DDNS server has no response	<input checked="" type="radio"/>	<input type="radio"/>
DDNS server connection closed abnormally	<input checked="" type="radio"/>	<input type="radio"/>
Connection with time server failed	<input checked="" type="radio"/>	<input type="radio"/>
Motion detect camera A	<input checked="" type="radio"/>	<input type="radio"/>
Motion detect camera B	<input checked="" type="radio"/>	<input type="radio"/>
Temperature over range	<input checked="" type="radio"/>	<input type="radio"/>
Humidity over range	<input checked="" type="radio"/>	<input type="radio"/>
Water alarm	<input checked="" type="radio"/>	<input type="radio"/>
Gas alarm	<input checked="" type="radio"/>	<input type="radio"/>
Smoke alarm	<input checked="" type="radio"/>	<input type="radio"/>
Option 1 Alarm	<input checked="" type="radio"/>	<input type="radio"/>
Option 2 Alarm	<input checked="" type="radio"/>	<input type="radio"/>
Option 3 Alarm	<input checked="" type="radio"/>	<input type="radio"/>
Option 4 Alarm	<input checked="" type="radio"/>	<input type="radio"/>
Option 5 Alarm	<input checked="" type="radio"/>	<input type="radio"/>
Option 6 Alarm	<input checked="" type="radio"/>	<input type="radio"/>
Option 7 Alarm	<input checked="" type="radio"/>	<input type="radio"/>

Fig.30 Event Selection List

By default, all the events are selected but not confirmed. Click **Apply** to activate and confirm selection.

Click  to close the window and return to the **Event Notification** page.

**Note:**

The Image Recording and Motion Detection notification function here will only send an email notification WITHOUT any picture attached. For email notification with images, the Administrator has to setup the **Motion Detection** and **Image Recording** page (see Section 3.2.4.2)

iCAMView will email the following notification depending on which event was selected.

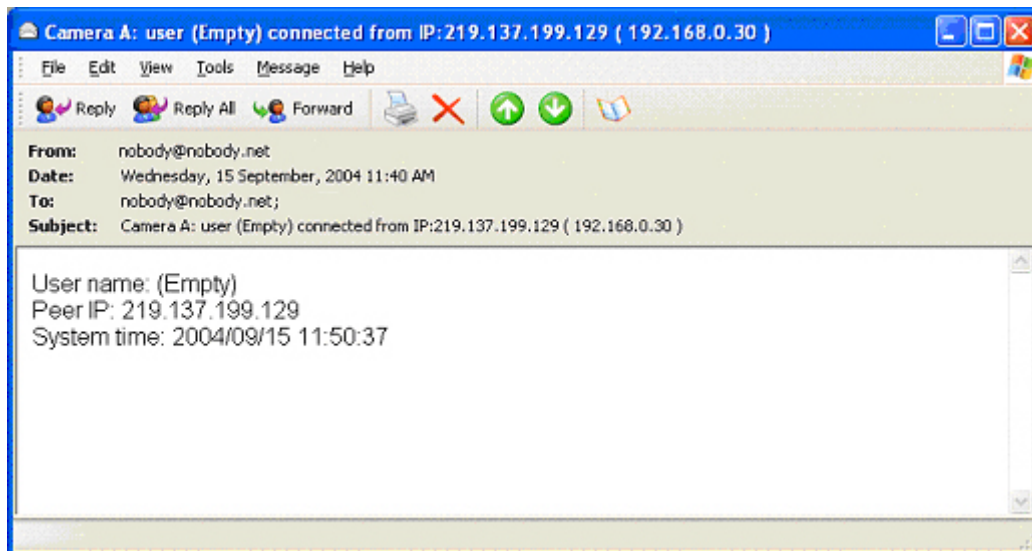


Fig.31 Event Notification: User Login Details (Date, Time, Camera &amp; IP)

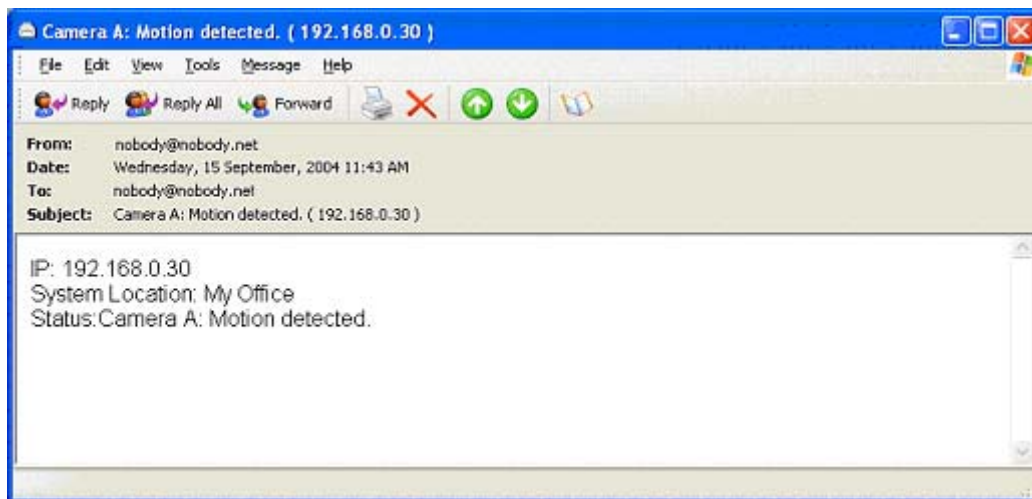


Fig.32 Event Notification: Camera A Motion Detected

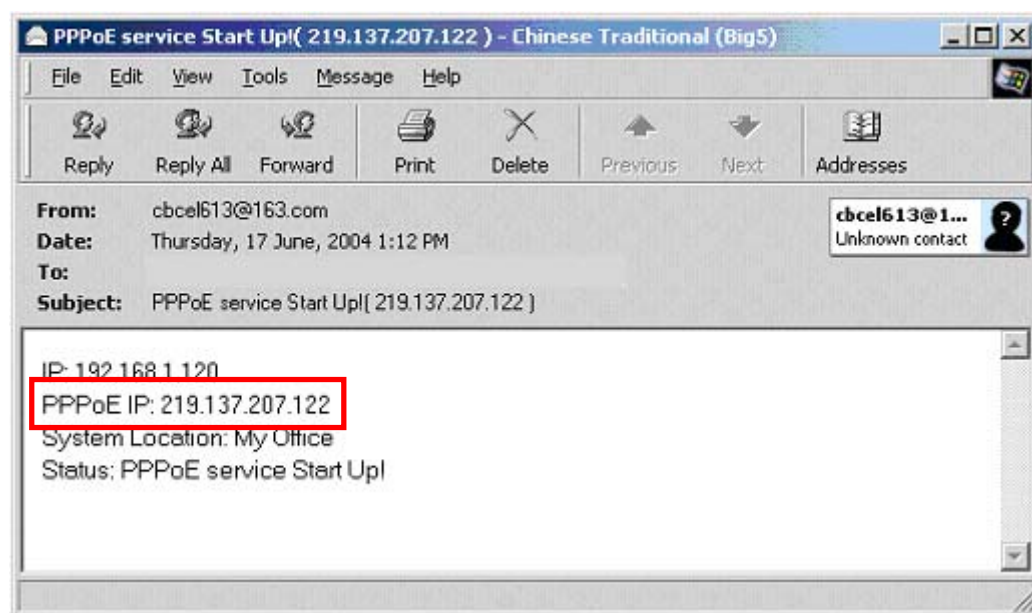


Fig.33 Event Notification: PPPoE Connect Successful with Public IP shown

### 3.2.4.2 Image Settings

This page allows the Administrator to set various items related to video detection. Only an Administrator can setup Motion Detection and Image Recording functions.

#### i. Motion Detection

Fig.34 Motion Detection page

#### Enable

The Administrator has three options for Motion Detection;

- Always On**, or;
- On Schedule**, the Administrator can set up to 4 different time slots for motion detection, or;
- No** to turn Motion Detection function off.



#### Note:

Check that you have setup valid **Email / FTP** accounts first before proceeding with the rest of the configuration.

To setup **Email / FTP**, refer to Section 3.2.4.3

#### Detection Sensitivity

This will determine the level of change before motion capture is triggered. A high percentage means a small change will trigger motion capture.

#### Send image every ... second(s)

Select either; 0.5, 1, 2, 3, 4 or 5 seconds.

#### Stop sending after ... email(s) or image idle for ... second(s)

iCAMView will stop sending emails on the lower of the two conditions. The Administrator can set between 1, 3, 5, 7 and 10 seconds. Emails can be set from 1 to 99999 pieces or 0 for stop sending email only when image idle occurred.

#### Schedule

When the unit is set to **On Schedule**, the Administrator can configure the four preferred schedule time slots for motion detection. Time must be entered in 24hr format.

**Send to FTP Server**

Click **Yes** to activate. This option allows the administrator to send and store the motion detected images on a FTP site. This is useful for future reference and recording purpose.

**ftp://<empty>/<folder>**

This allows the Administrator to determine the folder where the Motion Detected files are stored. Enter a folder name in **<folder>**. Click **Apply** when done.

**Note:**

The folder name must be valid and has appropriate upload permissions.

You must first enter a valid FTP address in **Email / FTP** page. Otherwise the FTP address field will be left **<empty>**.

To setup the FTP server, see Section 3.2.4.3

**System Defined / User Defined**

The administrator can also determine to either have the system automatically assign the filenames for the pictures saved. Or manually assign the filename.

**Filename ...**


Specify a prefix filename for the motion detected JPG images. The default prefix is **image\_**

**Loop from ... to ...**

This will determine the number of files in the sequence. Once the last file number is reached, it'll loop and replace the first file in the sequence with the most current image.

**Digits ...**

This will determine the number of digits assignable for the above sequence. The Administrator can choose to assign between **1** to **6** digits.

Click  for an example.

**Send to Storage Disk**

Select **Yes** to save the images to a USB Flash Disk. This function only works if the USB Flash Disk is in FAT32 format.

**System Settings / User Settings**

The administrator can also determine to either have the system automatically assign the filenames for the pictures saved. Or manually assign the filename.

**FPS ... minute(s) / video**

Specify how many frames per second to record.

**Directory / Video name**

Use these fields to assign the directory and individual Video file names.

## Send Email

Select **Yes** to send an email when motion is detected.



### Note:

The image size received by Email / FTP depends on the resolution set in **Basic Settings → Camera Settings → Image Size**

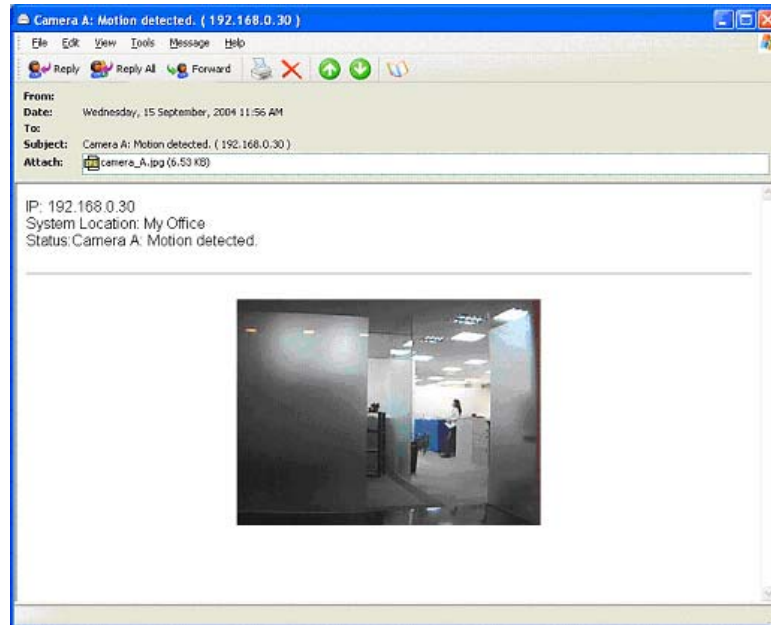


Fig.35 Motion Detect Email Notification

## Email Server: ...

The Email server will be shown here. If not, click **Edit** to go to the **Email / FTP** configuration page. Click on **Motion Detection** to return here. (refer to section 3.2.4.3 on Email / FTP configuration)

## Email Address Book

The available Email addresses are listed here. Refer to Section 3.2.4.3 on how to add an Email address to the **Address Book**.

## Recipient

The Administrator can determine who will receive email notification.

To add a recipient to the list, click <

To add all the recipients to the list, click <<

To remove a recipient from the list, click >

To remove all the recipients from the list, click >>

Click **Apply** to confirm and save the settings.

## ii. Image Recording

Image recording allows the user to receive a string of JPG images to either their email account or FTP account. The images will be sent over a predetermined interval.

The screenshot shows the 'Image Recording' configuration page for 'Camera A'. It includes settings for enabling the feature, the frequency of image capture (1 minute), and destinations for the captured images (FTP Server, Storage Disk, and Email). It also allows setting a time range for recording (00:00 to 23:59). At the bottom, there are sections for managing recipients and an email address book.

Fig.36 Image Recording webpage

**Enable**

Click **Yes** to activate this feature.

**Begin – End (hh:mm)**

The Administrator can determine up to 2 different time slots for Image Recording. The time is in 24hrs format.

**Send image every ... minute(s)**

The Administrator can determine the interval (between 1 to 99 minutes) at which iCAMView capture and send an image.

**Send to FTP Server & Send Email**

This is similar to the function available in **Motion Detection** page. Please refer to part (i) above for details.

**Note:**

The image size received by email / FTP from depends on the resolution set in **Basic Settings → Camera Settings → Image Size**



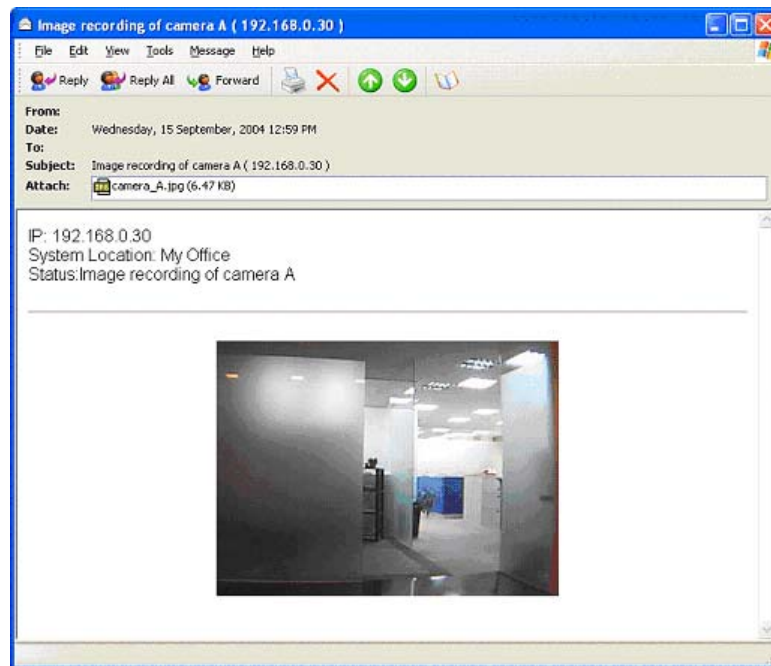


Fig.37 Email of Image Recorded

### 3.2.4.3 E-mail / FTP

This webpage sets up the necessary Email and FTP server information. The Administrator will have to enter a valid Account Name and Password to the Email server and/or FTP server. These information have to be setup in order for Event Notification, Motion Detection and Image Recording function to work.

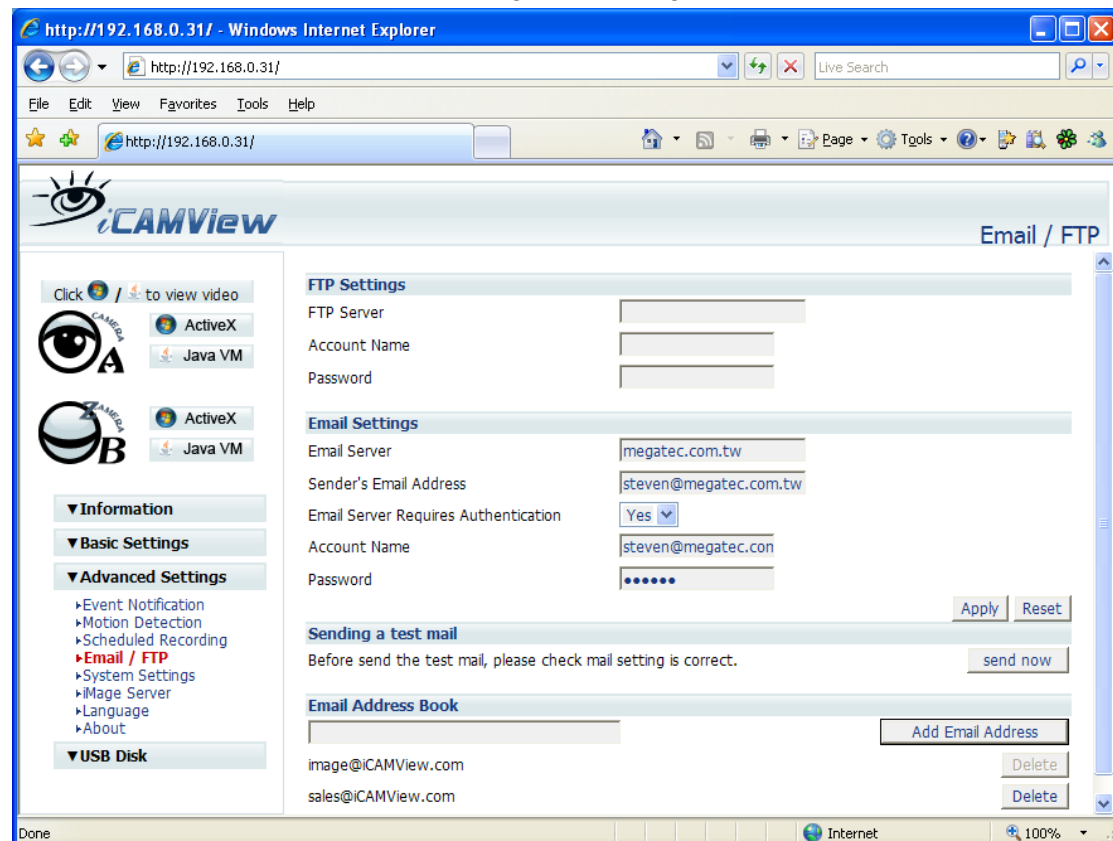
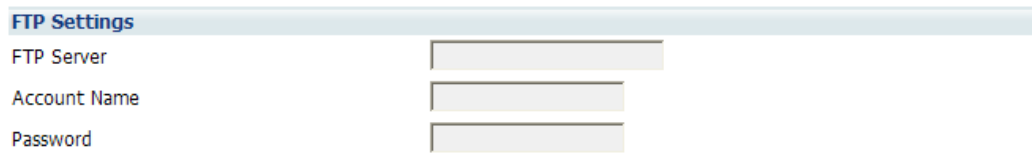


Fig.38 Email / FTP settings page

i. **FTP Settings**


FTP Settings

FTP Server

Account Name

Password

Fig.39 FTP settings

**FTP Server**

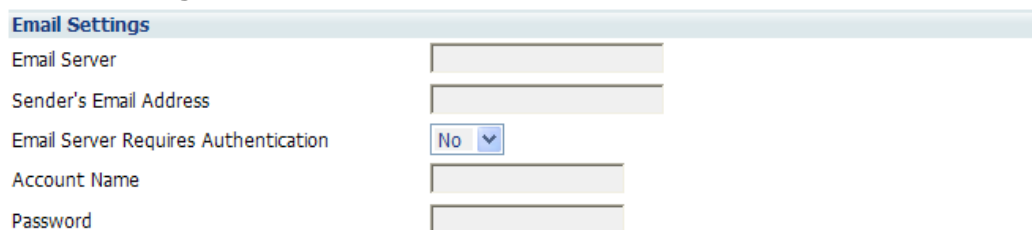
The Administrator will have to enter the full FTP server address here.

**Account Name**

Enter the FTP login account name here.

**Password**

Enter the account password. Click **Apply** to save the above settings.

ii. **Email Settings**


Email Settings

Email Server

Sender's Email Address

Email Server Requires Authentication No

Account Name

Password

Fig.40 Email settings

**E-mail Server**

The Administrator will have to enter the Email server address here.

**Note:**

Email function can only work using standard Email Server and not Web based Email Server, such as yahoo.com

**Sender's Email Address**

Enter a valid email address where the Email will be sent from. Enter the full email address, example: image@mailserver.com

**Email Server Requires Authentication**

Select **Yes** to enter the Account name and Password field below.

**Account Name**

Enter the full account name.

**Note:**

Check with your ISP on the Account Name format. This may be either the **Full Email Address** or just **Account Name**.

**Password**

Enter the password for the above account name. Click **Apply** to save the changes.

### iii. Sending Test Mail

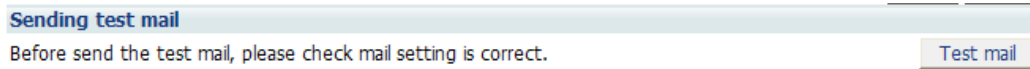


Fig.41 Sending a test mail

- a. Click **Test Mail** to check that the **Email Setting** has been correctly configured.

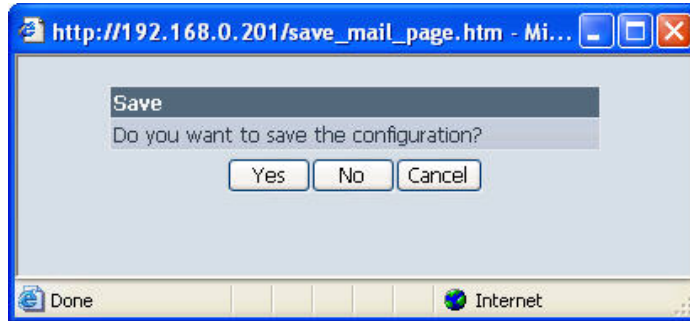


Fig.42 Saving configuration before sending a test mail

- b. Click **Yes** to save configurations and proceed to the following window.

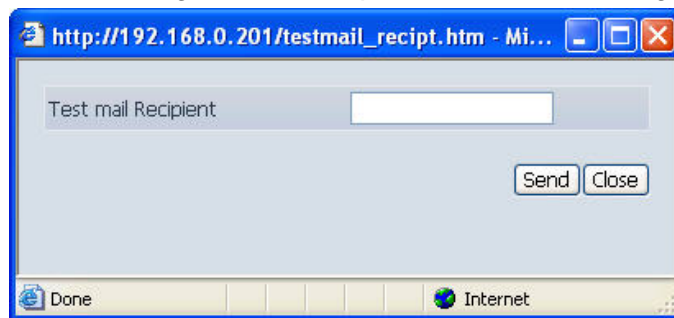


Fig.43 Test mail recipient email address

- c. Enter the **Test mail Recipient** email address and click **Send**.
- d. If the **Test Mail** is successful, the Recipient will receive the following email message.

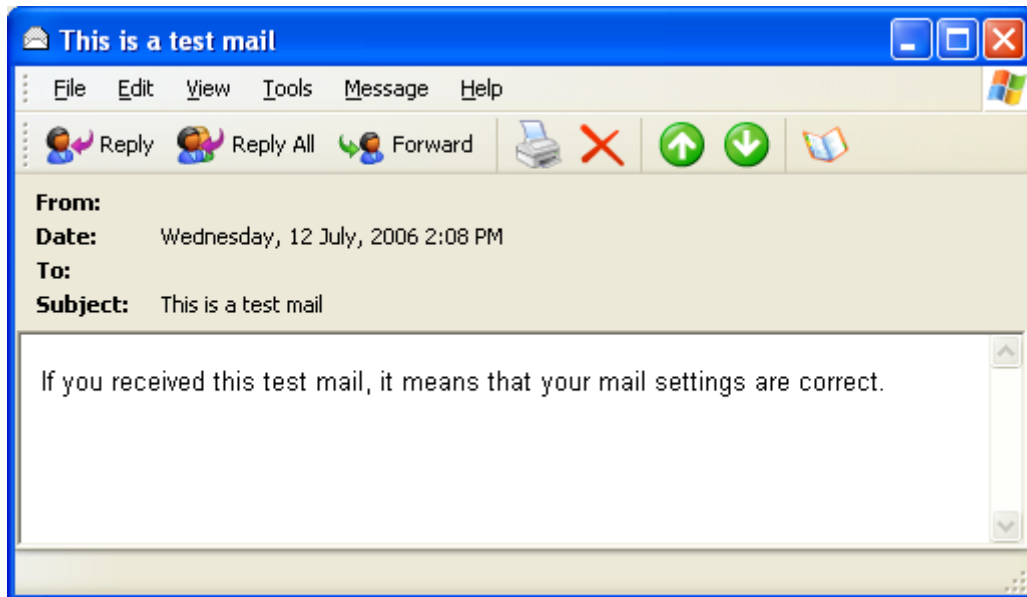


Fig.44 Confirmation email

The administrator can also check **Information → Event Log** for confirmation or failure.

No.	Date/Time	Type	Event
50	2006/07/12 06:13:09	Email	Test Mail has been sent.

Fig.45 Event Log: Test mail successful

No.	Date/Time	Type	Event
51	2006/07/12 06:16:41	Email	Failed to send test mail.

Fig.46 Event Log: Test mail failed

#### iv. Email Address Book

Fig.47 E-mail Address Book Entry

Enter an Email address in the box provided and click **Add Email Address**. The listed emails will be available for use in Event Notification, Motion Detection and Image Recording webpage.

Up to 20 email addresses can be stored.

Click **Delete** to remove an Email address.

#### 3.2.4.4 System Settings

This page allows the Administrator to set iCAMView SNMP settings so it can be used by a NMS (Network Management System).

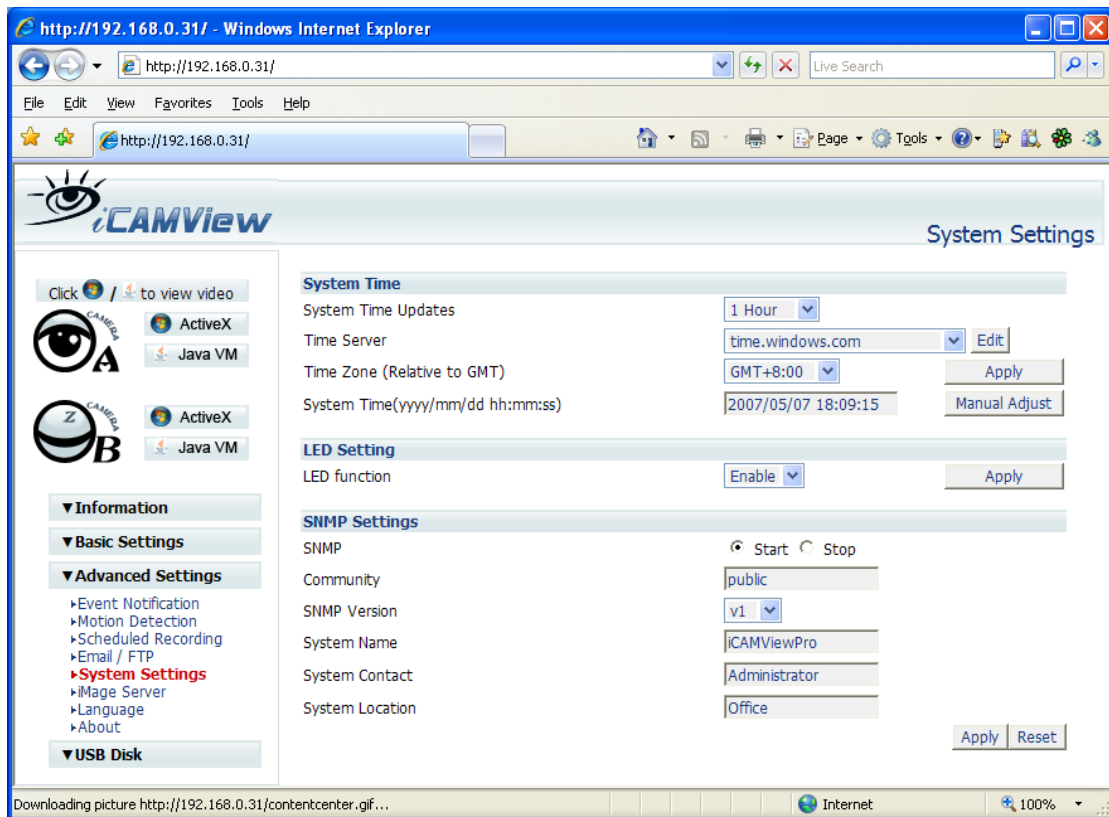


Fig.48 System Settings page

### i. System Time

System Time	
System Time Updates	1 Hour
Time Server	time.windows.com
Time Zone (Relative to GMT)	GMT+8:00
System Time(yyyy/mm/dd hh:mm:ss)	2007/04/24 15:37:02

Fig.49 System Time

#### System Time Updates

The administrator can set an interval for time synchronization. Select from either; 1, 3, 12 hours or 1, 10 & 30 days.

#### Time Server

Choose the nearest **Time Server** to your iCAMView location. The Administrator can choose from the list of a maximum of 30 Time Servers.

To add a new **Time Server** the Administrator must first make space by deleting existing **Time Servers** from the list. Once this is done, the **Add** dialog box will appear as below. Click **Back** to return to the System Settings webpage.

Time Server	
time.windows.com	Delete
ntp0.cs.mu.OZ.AU	Delete
ntp1.cs.mu.OZ.AU	Delete
ntp1.rnp.br	Delete

Fig.50 Add Time Server dialog box

**Time Zone (Relative to GMT)**

Select the appropriate time zone. Click **Apply** to save changes.

**System Time (yyyy/mm/dd hh:mm:ss)**

This section is to manually set iCAMView **System Time**. The format is pre-determined to: yyyy/mm/dd hh:mm:ss (in 24hr format). Click **Manual Adjust** to save the changes.

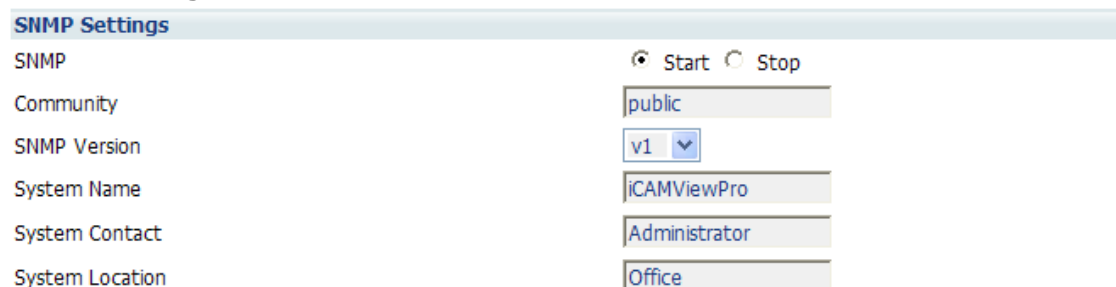
**ii. LED Settings**


The LED Settings dialog box has a title bar 'LED Setting'. Below it, there is a label 'LED function' followed by a dropdown menu currently set to 'Enable'. To the right of the dropdown is an 'Apply' button.

Fig.51 LED Settings

**LED function**

This function is not applicable.

**iii. SNMP Settings**


The SNMP Settings dialog box has a title bar 'SNMP Settings'. Below it, there are several settings:
 

- SNMP**: A radio button group with 'Start' selected and 'Stop' unselected.
- Community**: A text input field containing 'public'.
- SNMP Version**: A dropdown menu set to 'v1'.
- System Name**: A text input field containing 'iCAMViewPro'.
- System Contact**: A text input field containing 'Administrator'.
- System Location**: A text input field containing 'Office'.

Fig.52 SNMP Settings

**SNMP**

Choose to enable or disable this feature.

**Community**

Assign a unique Community name for this unit that is identifiable in a Network Management System (NMS).

**SNMP Version**

Select the SNMP version supported by the system.

**System Name**

This is to give iCAMView a name identifiable in a SNMP network.

**System Contact**

This is to give the Administrator an identity in the SNMP network.

**System Location**

This is to set iCAMView SNMP location.

### 3.2.4.5 iMage Server

The iMage Server allows the user to view his camera directly from the internet without having to set-up DDNS or Router's NAT. All the user has to do is to log onto the iMage Server's webpage and register an account.

Once the iMage Account is registered. The user can bring iCAMView to anywhere with an internet connection, log onto **www.iCV99.net** and access the video stream.

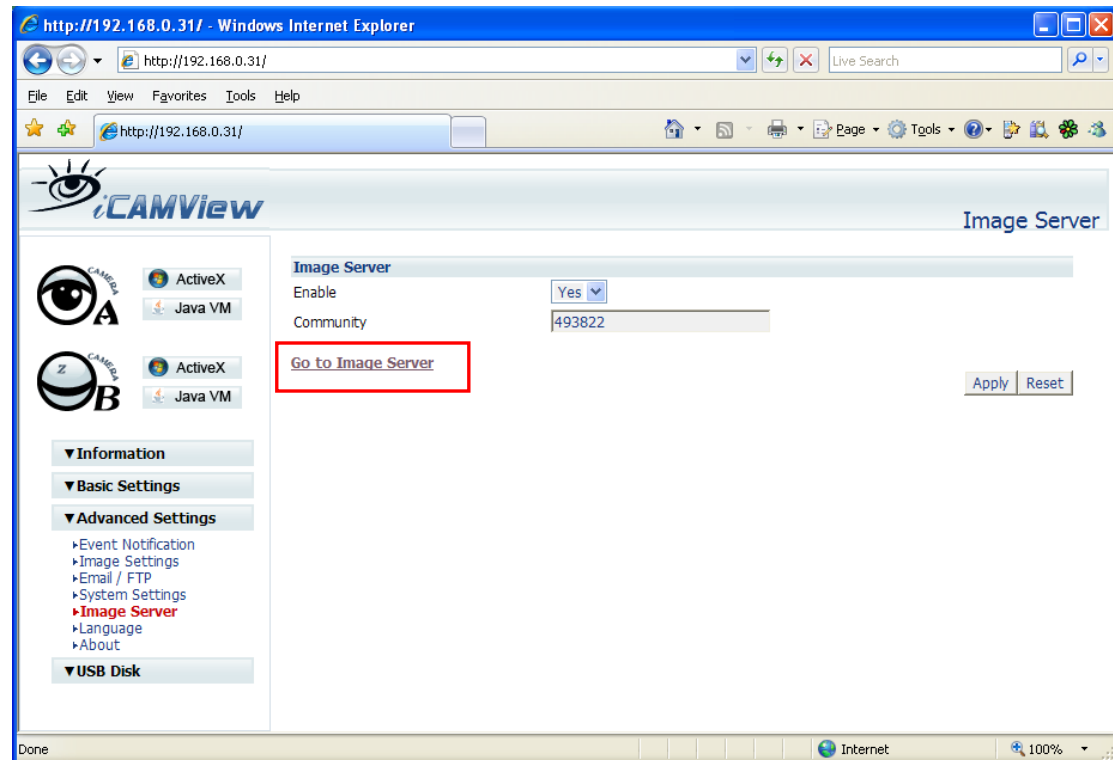


Fig.53 iMage Server settings page

#### Enable

Choose **Yes** to enable this feature or **No** to disable.

#### Community

This is a security feature. Set a Community password to add an extra level of internet security to iCAMView. Each unit is assigned a 6 digit Community ID by default. Change this to prevent unauthorized access.

Click **Apply** to confirm settings.

To activate the iMage Server account;

1. Click **Goto iMage Server**. Your browser will redirect you to the iMage Server site **www.iCV99.net**.
2. For first time login, click **Register** (see below). Be sure to have the following information at hand;
  - i. iCAMView Serial Number,

- ii. iCAMView Master Password (both information are located on the label behind iCAMView)

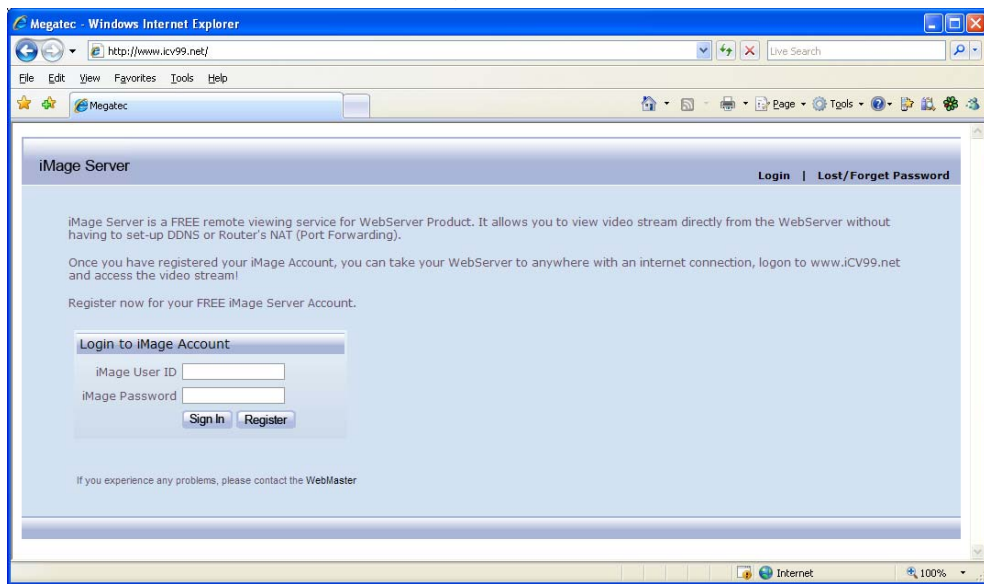


Fig.54 iImage Server login page

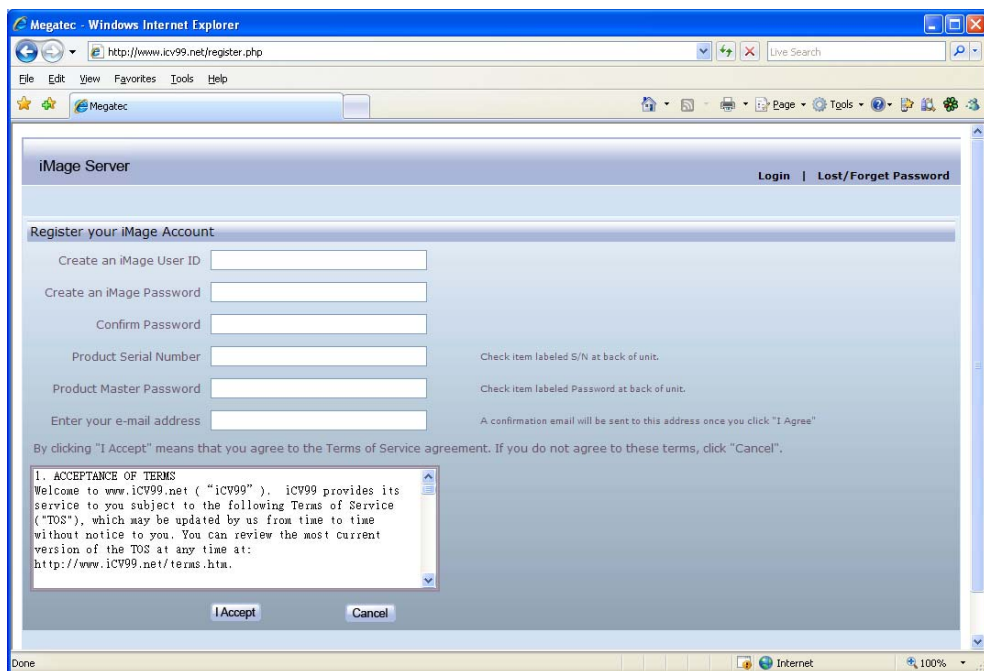


Fig.55 iImage account Registration page

3. Once registered, a confirmation email will be sent to your email address. You can now sign in to your account using your new iImage User ID.



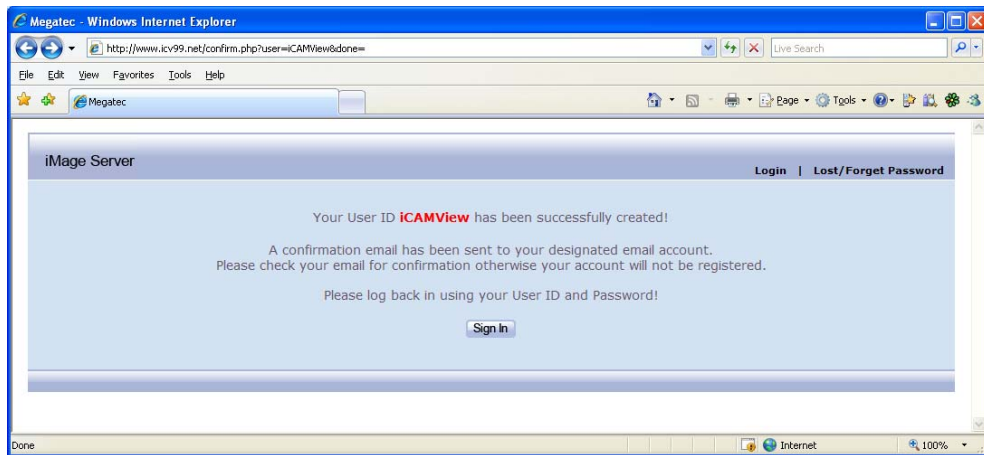
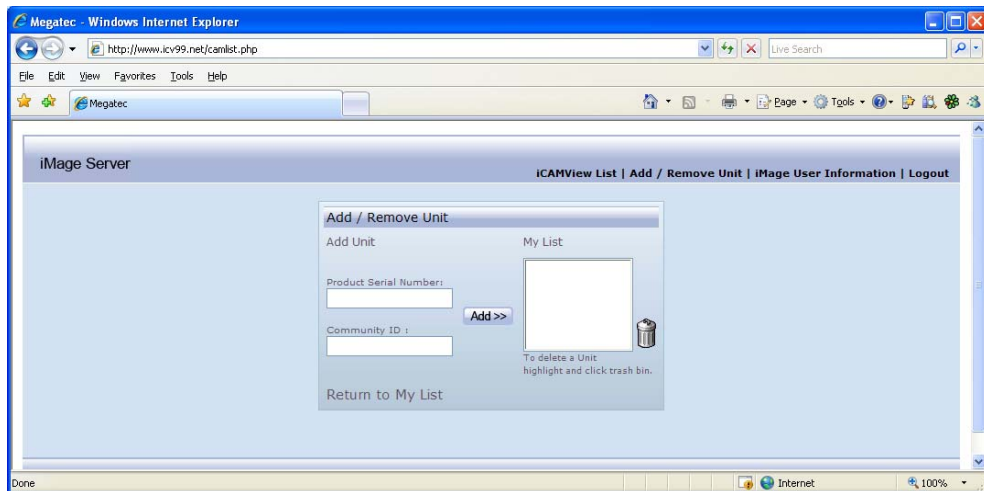
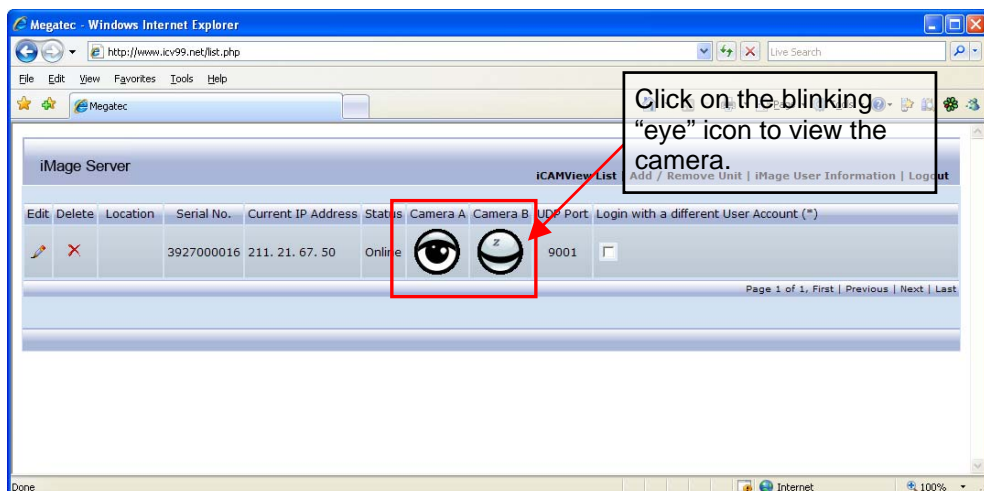


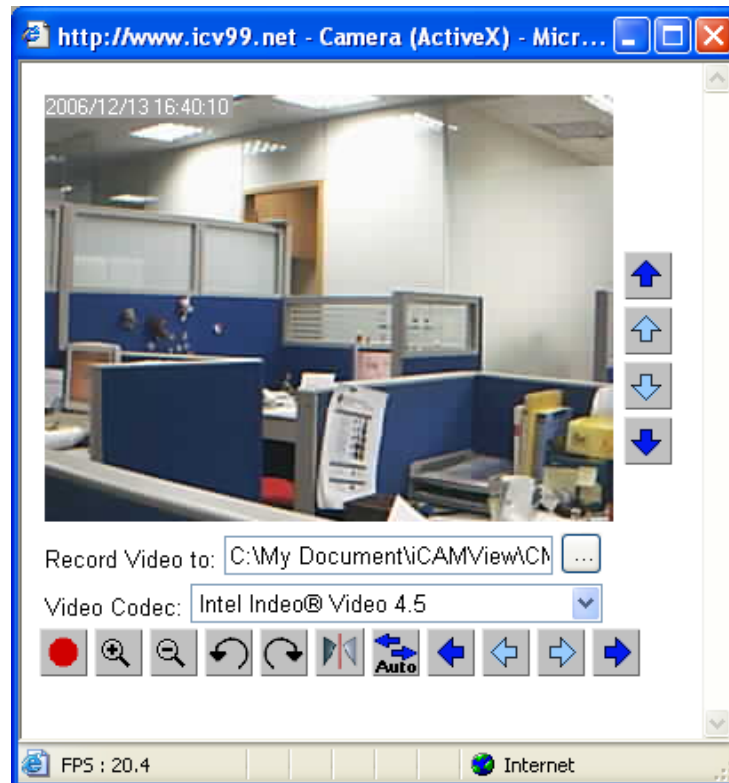
Fig.56 iImage account successfully created.

4. Click **Sign In**, and click **Add / Remove Unit**. Enter the Serial Number and Community ID (if one has been set under **Advanced Settings** → **iImage Server** → **Community**). Click **Add >>** to add iCAMView to the List.



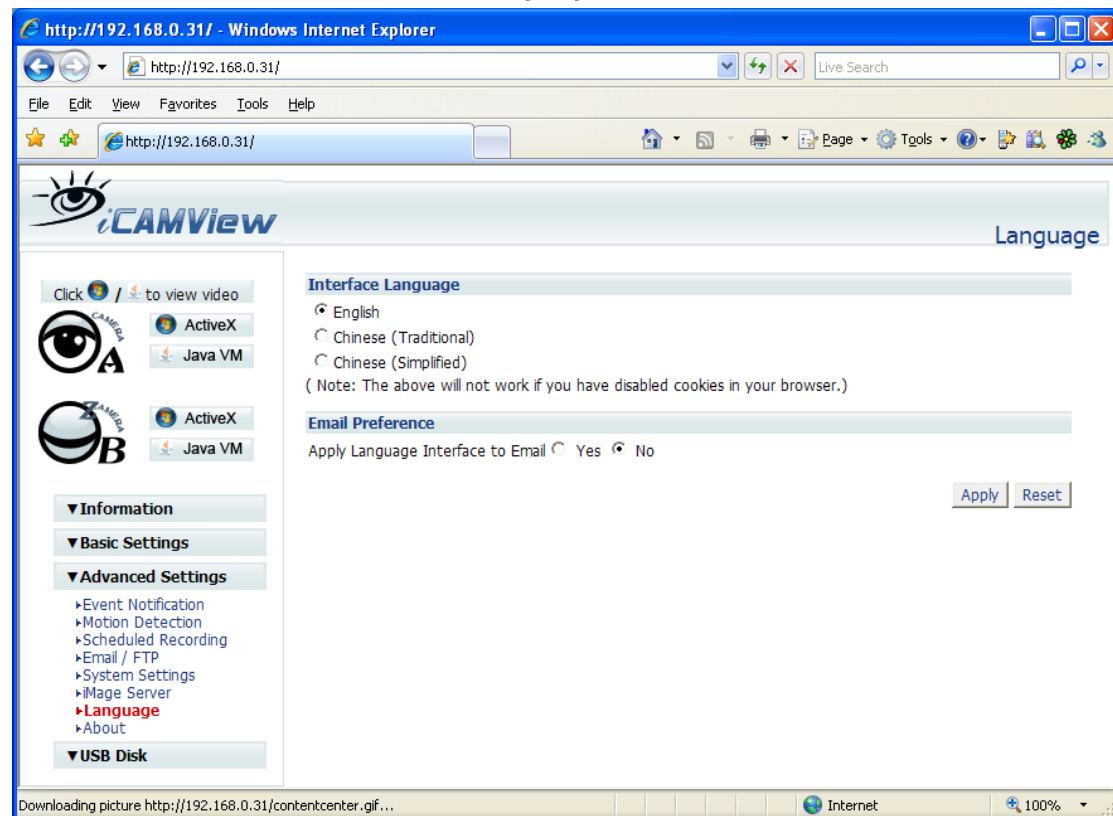
5. Next click **Return to My List**, and click on the "eye" icon to view the camera.





### 3.2.4.6 Language

Use this section is to set iCAMView language interface.



#### i. Interface Language

At the moment, the user can choose the following versions;

- English,
- Traditional Chinese.
- Simplified Chinese.

## ii. Email Preference

Check **Yes** to apply the language preference to emails sent from iCAMView.

### 3.2.4.7 About

The administrator can use this section to check firmware information, save/restore settings, upgrade firmware and see manufacturer's details.

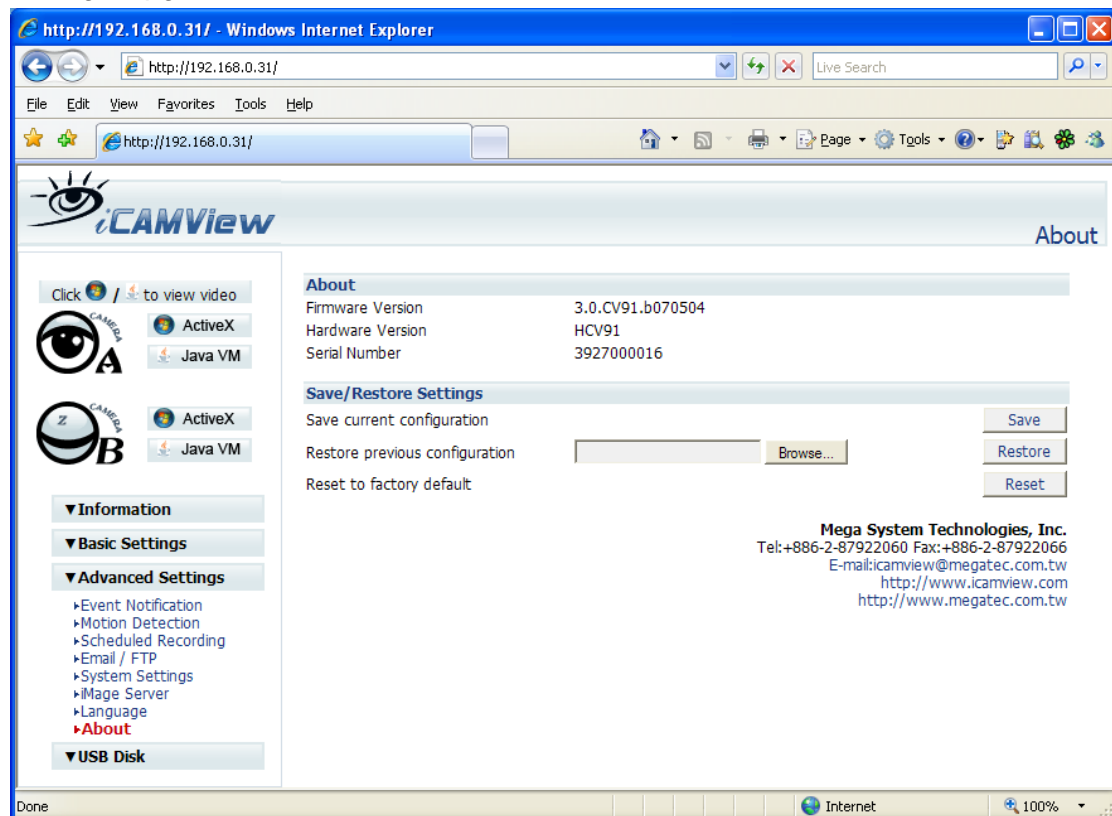


Fig.57 About page

## i. About

This shows the Firmware Version, Hardware Version and Serial Number.

## ii. Save / Restore Settings

### Save Current Configuration

Click **Save** to save the configuration to your PC. The text file will have a default format of YYYY\_MMDD\_####.cfg. Administrator permission required.

### Restore Previous Configuration

Use this function to restore a \*.cfg configuration that has been saved earlier. Click **Browse...** to the location of the file and click **Restore**.

### Reset to factory default

This function will reset all settings to its default value.



**Note:** iCAMView will request for the master login and password. This is printed at the back of the unit.

### 3.2.5 USB Disk

This section is only available if a USB flash disk with FAT32 format is connect.

#### 3.2.5.1 Video

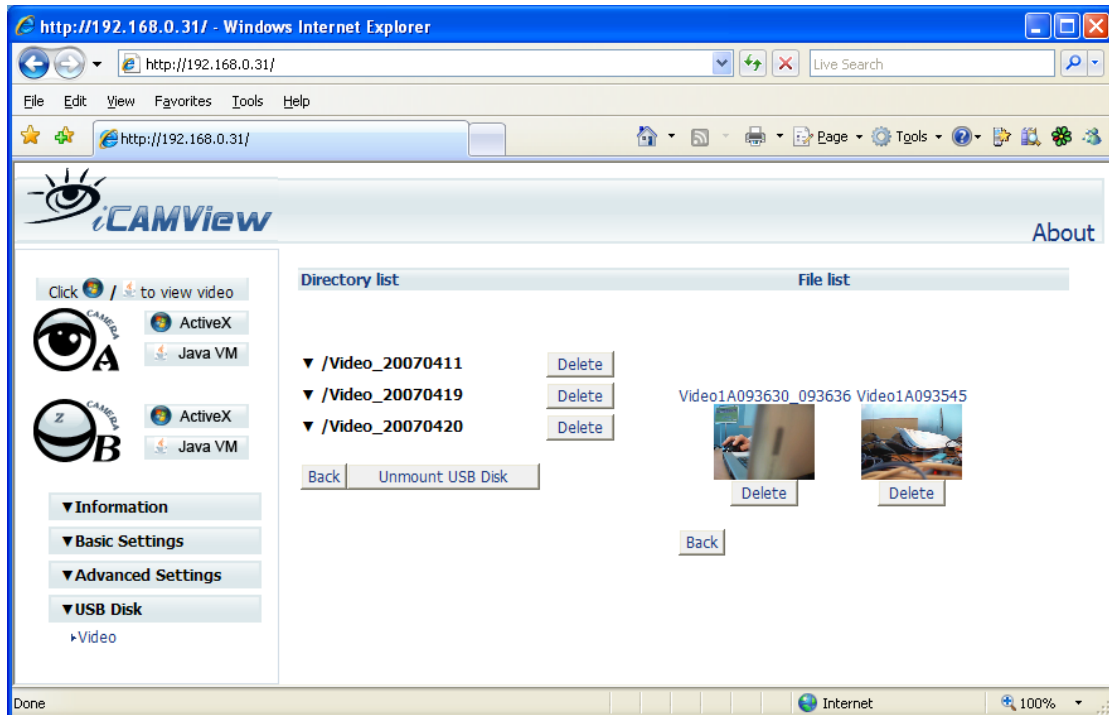
##### 3.2.5.1 Video

This section allows images / video to be stored directly to a USB flash disk.



**Note:**

Administrator privilege is required to configure this section.



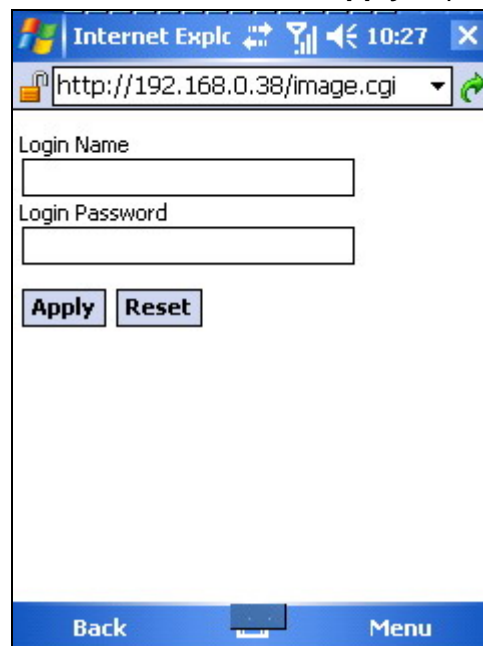
#### i. Directory List

Click the directory to display the content. All videos will be shown with a preview. Click on the video to download it to your PC. Windows Media Player will be selected to run the file.

## Chapter 4: View Images Using PDA / PPC / mobile

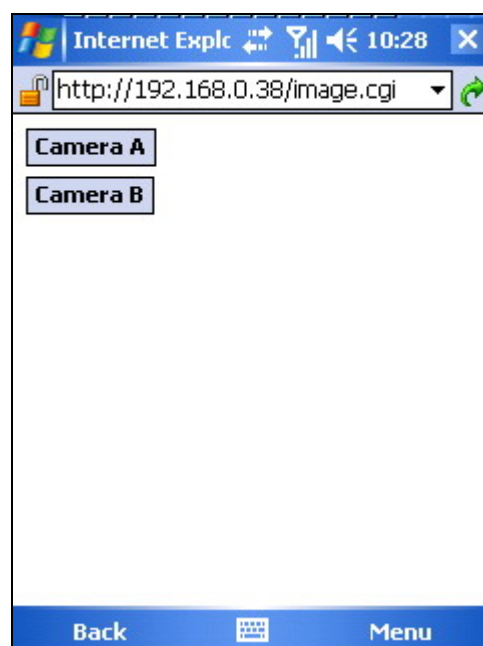
iCAMView supports image viewing from a GRPS / WiFi enabled PDA / PPC / Symbian mobile device. To view the images;

- a. Make sure that the PDA / PPC / Mobile unit is connected to LAN or Internet.
- b. Enter **http://xxx.xxx.xxx.xxx/image.cgi** in the web address (where **xxx** is either the LAN IP, WAN IP address or iCAMView Domain Name)
- c. The following login page will appear. Enter the **Login Name** and **Login Password** if applicable. Otherwise, click **Apply** to proceed.



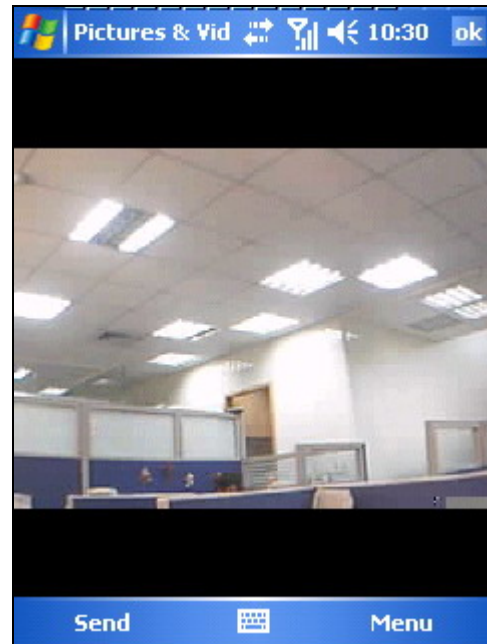
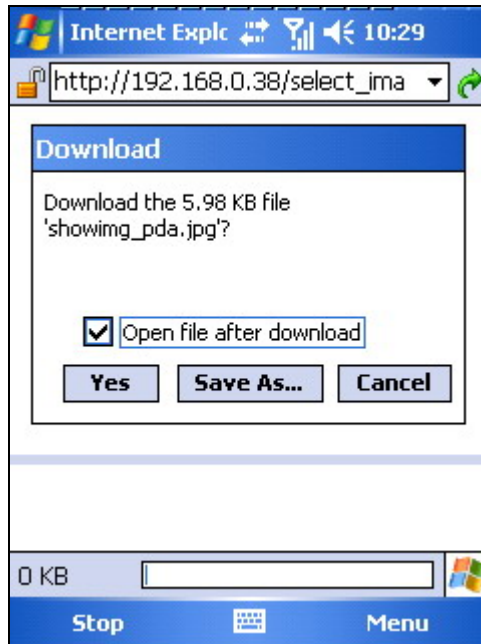
The screenshot shows a mobile web browser window titled "Internet Explc" with a status bar at the top showing signal strength, battery, and time 10:27. The address bar contains "http://192.168.0.38/image.cgi". The main content area has two text input fields labeled "Login Name" and "Login Password". Below these fields are two buttons: "Apply" and "Reset". At the bottom of the screen is a blue navigation bar with "Back" and "Menu" buttons.

- d. The following Camera Selection will appear. Click on either **Camera A** or **Camera B**.



The screenshot shows the same mobile web browser window as before, but the address bar now shows "http://192.168.0.38/image.cgi" and the status bar shows time 10:28. The main content area displays two buttons: "Camera A" and "Camera B". The bottom navigation bar remains the same with "Back" and "Menu" buttons.

- e. The default file name is **showing\_pda.jpg**, click **Save As...** to change the file name or save location.



**Note:**

The downloaded image size depends on the resolution set in **Basic Settings → Camera Settings → Image Size**.

*Approximately, 6KB @ 320x240 vs. 17KB @ 640x480 resolution.*

- f. The images are downloaded and displayed one at a time. Click **Refresh** to download the next image. Click **Back** to go to the camera page to select a different camera.



## Appendix A: Router Configuration

The following section describes the initial configuration of the router and port forwarding for your router. If your router is not listed here, please refer to the manufacturer's website for assistance with configuring your router to work with iCAMView.

### Port Forwarding for iCAMView

iCAMView requires certain ports to be open on your router to allow other computers on the Internet to view it on your internal network. Normally, your router will have the less common ports disabled or blocked by the router's built-in firewall. In order for iCAMView applications to work properly and not be blocked, the firewall settings need to be configured. In each instance there will be a trigger port and incoming port(s), where traffic on the trigger port tells the Firewall to open the incoming ports. iCAMView requires that TCP Port 80 and UDP 9001 (default settings) be opened to the Internet. TCP Port 80 is used for accessing the camera's homepage and UDP Port 9001 is used for authentication and video streaming.

If your Internet service Provider blocks port 80/9001, you'll need to reconfigure your camera and router to other ports such as 81/9002, 82/9003, etc. To change the port settings on the camera, you'll need to use Utility.

Follow the steps below to configure your router, depending on the router manufacturer and model. If your particular router manufacturer or model is not listed below, please contact your router manufacturer for further assistance in configuring the router.

The following router manufacturers and models are included in this document:

Brand	Model	Description
3Com	3C857-US	OfficeConnect Cable/DSL Gateway
	3CRWE52196	OfficeConnect Wireless Cable/DSL Gateway
Belkin	F5D6230-3	Wireless Cable/DSL Gateway Router
	F5D7230-4– 54g	Wireless DSL/Cable gateway Router
D-Link	DI-604/DI-614+/DI-624	-
	DI-704/704P	-
	DI714	-
	DI-714P+	-
Dell	TrueMobile 2300	-
	Wireless Broadband Router	
Linksys	BEFSR41	EtherFast Cable/DSL Router
	BEFSX41	Instant Broadband EtherFast Cable/DSL Firewall Router with 4-Port Switch/VPN EndPoint
	BEFW11S4	Wireless Access Point Router with 4-Port Switch – Version 2
Microsoft	MN-100	Wired Base Station



	MN-500	Wireless Base Station
NETGEAR	RP614	Web Safe Router
	MR814	Wireless Router
	MR314	Cable/DSL Wireless Router
	FVS318	ProSafe VPN Firewall
Proxim	ORiNOCO BG-2000	-
	Broadband Gateway	
Siemens	SpeedStream 2602	2-Port DSL/Cable Router
	SpeedStream 2623	Wireless DSL/Cable Router
	SpeedStream 2604	4-port DSL/Cable Router
	SpeedStream 2624	Wireless DSL/Cable Router
SMC	SMC2404WBR	Barricada Turbo 11/22 Mbps Wireless Cable/DSL Broadband Router
	SMC7004VBR	Barricada Cable/DSL Broadband Router
	SMC7004CWBR	Barricada Wireless Cable/DSL Broadband Router
	SMC7004AWBR	Barricade 4-port 11Mbps Wireless Broadband Router

**3Com (<http://www.3com.com>)**

**3C857-US – OfficeConnect Cable/DSL Gateway**

**3CRWE52196 – OfficeConnect Wireless Cable/DSL Gateway**

1. Log into your router using your router IP.
2. On the main page, select **Firewalls** on the left side of the page.
3. Select the **Virtual Servers** tab at the top of the page.
4. Click **New** on the right side of the page to open the Virtual Server Settings dialog box.
5. Type in the camera's IP address in the Server IP address text box. (Look at iCAMView IP address shown on the LCD display for the last 3 digits of the camera's IP address)
6. Under Local Service, select **Custom**.
7. Under Custom Service Name, type in: **iCAMView**.
8. Under Specify Custom Service Ports, type in: **80, 9001**.
9. Click **Add** to save the settings. iCAMView should now be configured to work with your router and be accessible from the internet.

**Belkin (<http://www.belkin.com>)****F5D6230-3 – Wireless Cable/DSL Gateway Router**

1. Log into your router using your router IP.
2. On the main page, select **Virtual Server** on the left side of the page under the Security section.

3. Enter the following information on the page:

Line #1:

Private IP:           Type in the **camera's IP address**. (Look at iCAMView IP Address LCD display for the last 3 digits of the camera's IP address)

Private Port:       80

Type:               TCP

Public Port:       80

Line #2

Private IP:           Type in the **camera's IP address**. (Look at iCAMView IP Address LCD display for the last 3 digits of the camera's IP address)

Private Port:       9001

Type:               UDP

Public Port:       9001

4. Click **Enter** to save the settings. iCAMView should now be configured to work with your router and be accessible from the internet.

**F5D7230-4 – 54g Wireless DSL/Cable gateway Router**

1. Log into your router using your router IP.
2. On the main page, select **Firewall** on the left side of the page.
3. Under Firewall, select **Virtual Servers**.

4. Enter the following information on the page:

Line #1

Enable:              Checked in

Description:       iCAMView - Webpage

Internet Port:      80 to 80

Type:               TCP

Private IP address: Type in the **camera's IP address**. (Look on the iCAMView Address LCD display for the last 3 digits of the camera's IP address)

Private Port            80 to 80

Line #2

Enable:                Checked in

Description:          iCAMView – Camera

Internet Port:        9001 to 9001

Type:                  UDP

Private IP address:   Type in the **camera's IP address**. (Look at iCAMView IP Address shown on LCD display for the last 3 digits of the camera's IP address)

Private Port            9001 to 9001

5. Click **Apply Changes** to save the settings. iCAMView should now be configured to work with your router and be accessible from the internet.

**D-Link (<http://www.dlink.com>)****DI-604/DI – 614+/DI-624**

1. Log into your router using your router IP.
2. On the main page, click on **Advanced** at the top of the page.
3. On the left side of the page, click on **Virtual Server**. Note: Make sure DMZ host is disabled. If DMZ is enabled, it will disable all Virtual Server entries.

4. Enter the following information on the page:

Enable/Disable:	Enabled
Name:	iCAMView - Webpage
Private IP:	Type in the <b>camera's IP address</b> , for example: 192.168.0.5
Protocol Type:	TCP
Private Port:	80
Public Port:	80
Schedule:	Always

5. Click **Apply** to save the settings.

6. Enter the following information on the page:

Enable/Disable:	Enabled
Name:	iCAMView - Webpage
Private IP:	Type in the <b>camera's IP address</b> , for example: 192.168.0.5
Protocol Type:	UDP
Private Port:	9001
Public Port:	9001
Schedule:	Always

7. Click **Apply** to save the settings. iCAMView should now be configured to work with your router and be accessible from the internet.

**DI-704/704P**

1. Log into your router using your router IP.
2. On the main page, click on **Advanced** at the top of the page.
3. On the **Virtual Server** page, enter the following information;

For ID#1:

Service Port:	80
Service IP:	Type in the <b>camera's IP address</b> , for example: 192.168.0.5

Enabled/Disabled: Enabled

For ID#2

Service Port: 9001

Service IP: Type in the **camera's IP address**, for example: 192.168.0.5

Enabled/Disabled: Enabled

4. Save your settings. iCAMView should now be configured to work with your router and be accessible from the internet.

## DI714

1. Log into your router using your router IP.
2. On the main page, click on **Advanced** at the top of the page.
3. Click on **Virtual Server Settings** on the left side of the page.
4. Enter the camera's IP address into the Internal IP field. Under Service, select **All** and then click **Submit** to save your settings. iCAMView should now be configured to work with your router and be accessible from the internet.

## DI-714P+

1. Log into your router using your router IP.
2. On the main page, click on **Advanced** at the top of the page.
3. On the left side of the page, click **Virtual Server**.

4. Enter the following information on the page:

For ID#1:

Service Port: 80

Service IP: Type in the **camera's IP address**, for example: 192.168.0.5

Enabled/Disabled: Enabled

For ID#2

Service Port: 9001

Service IP: Type in the **camera's IP address**, for example: 192.168.0.5

Enabled/Disabled: Enabled

5. Click **Apply** to save your settings. iCAMView should now be configured to work with your router and be accessible from the internet.

**Dell (<http://www.dell.com>)**

**TrueMobile 2300 Wireless Broadband Router**

1. Log into your router using your router IP.
2. On the main page, click on **Advanced Settings** at the top of the page.
3. Go to the Port Forwarding section and select Custom Port Forwarding Settings.
4. Check the **Enable** box.
5. Enter the desired name or description in the **Service Name** field such as **iCAMView Web**.
6. In the **Incoming Ports** field, specify port **80** in both boxes.
7. In the **Destination IP Address** field, enter iCAMView IP address.
8. In the **Destination MAC Address** field, enter iCAMView MAC address. You can find the camera's MAC address by either looking at the MAC address sticker on the bottom of the camera or by utilizing setup utility to display the MAC address.

Linksys (<http://www.linksys.com>)

**BEFSR41 – EtherFast Cable/DSL Router**

**BEFSX41 – Instant Broadband EtherFast Cable/DSL Firewall Router with 4-Port Switch/VPN EndPoint**

**BEFW11S4 – Wireless Access Point Router with 4-Port Switch – Version 2**

1. Log into your router using your router IP.
2. On the router's main page, click on **Advanced** at the top of the page.
3. On the next page, click on **Forwarding**.
4. Enter the following information on the page:  
Line #1:  
Customized Applications: iCAMView – Webpage  
Ext. Port: 80 to 80  
Protocol: TCP  
IP Address: Type in the **camera's IP address**, for example:  
192.168.0.5  
Enable: Checked in  
  
Line #2:  
Customized Applications: iCAMView – Camera  
Ext. Port: 9001 to 9001  
Protocol: UDP  
IP Address: Type in the **camera's IP address**, for example:  
192.168.0.5  
Enable: Checked in
5. Click on **Apply** to save the settings. iCAMView should now be configured to work with your router and be accessible from the internet.



**Microsoft (<http://www.microsoft.com/hardware/broadbandnetworking>)**

**MN-100 – Wired Base Station**

**MN-500 – Wireless Base Station**

1. Log into your router using your router IP.
2. Open the Bass Station Management Tool, and then click **Security**.
3. On the Security menu, click **Port Forwarding**, and then click **Set up persistent port forwarding**.
4. In the Enable checkbox, check in the checkbox.
5. In the Description box, type a description of the server field such as: **iCAMView Web**.
6. In the Inbound port boxes, type in: **80 – 80**. (i.e. from Port 80 to Port 80)
7. In the Type box, select the protocol as **TCP**.
8. In the Private IP address box, type in the **IP Address** of iCAMView network camera. For example, type in: 192.168.0.5.
9. In the Private port boxes, these values are automatically filled in from Step 6 and should already show **80 – 80**.
10. On the next empty line, repeat steps 4-9, except this time the Description should be **iCAMView Cam** and the Inbound/Private port boxes should be **9001 – 9001** (UDP). The protocol and private IP address should be the same.
11. Click **Apply** to save the changes you have made. iCAMView should now be configured to work with your router and be accessible from the internet.

## NETGEAR (<http://www.netgear.com>)

### RP614 – Web Safe Router

### MR814 – Wireless Router

1. Log into your router using your router IP.
2. Click **Advanced -> Port Forwarding** on the left side of the page.
3. Click Add Customer Service.
4. Enter the following information on the page:

Service Name:	iCAMView – Web
Starting Port:	80
Ending Port:	80
Server IP Address:	Type in the <b>camera's IP address</b> , for example: 192.168.0.5
5. Click **Apply** to save the settings.
6. Enter the following information on the page:

Service Name:	iCAMView – Cam
Starting Port:	9001
Ending Port:	9001
Server IP Address:	Type in the <b>camera's IP address</b> , for example: 192.168.0.5
7. Click **Apply** to save the settings. iCAMView should now be configured to work with your router and be accessible from the internet.

### MR314 – Cable/DSL Wireless Router

1. Log into your router using your router IP.
2. Click **Advanced** on the left side of the page.
3. Click **Ports**.
4. Enter the following information on the page:

Line #1:	
Starting Port:	80
Ending Port:	80
Server IP Address:	Type in the <b>camera's IP address</b> , for example: 192.168.0.5

Line #2:

Starting Port: 9001

Ending Port: 9001

Server IP Address: Type in the **camera's IP address**, for example:  
192.168.0.5

5. Click **Apply** to save the settings. iCAMView should now be configured to work with your router and be accessible from the internet.

### FVS318 – ProSafe VPN Firewall

1. Log into your router using your router IP.

2. On the main page, click on **Add Service** on the left side of the screen.

3. Click Add Customer Service.

4. In the **Name** field enter a name for the camera, for example: **iCAMView Web**:

Type: TCP

Start Port: 81

Finish Port: 81

5. Click **Apply** to save the settings.

6. There is a bug in the NETGEAR FVS318 1.4 firmware that does not record any entry that uses port 80. If you intend to use port 80, you will initially need to enter 81 for the Start and Finish port, and then edit the entry to port back to 80. Click on **Add Service** on the left side of the screen.

7. In the **Service Table** window select iCAMView Web and click **Edit Service**.

8. Change the **Start** and **Finish** port to **80**. Click **Apply**.

9. On the main page, click on **Add Service** on the left side of the screen and then click **Add Custom Service**. In the **Name** field enter a name for the camera, for example: **iCAMView Cam**.

Type: UDP

Start Port: 9001

Finish Port: 9001

10. Click **Apply** to save the settings.

11. On the main page, click on **Ports** at the side of the screen.

A. Click **Add**.

B. For Service Name select: **iCAMView Web**

C. Action: **ALLOW** always

- D. Local Server Address: Enter the IP address of the camera
- E. WAN Users Address: **Any**
- F. Click **Apply**.

12. Click Add again.

- A. For Service name select: **iCAMView Cam**
- B. Action: **ALLOW always**
- C. Local Server Address: Enter the IP address of the camera
- D. WAN Users Address: **Any**
- E. Click **Apply**.

13. Exit the router setup program. iCAMView should now be configured to work with your router and be accessible from the internet.

**Proxim (<http://www.proxim.com>)**

**ORiNOCO BG-2000 Broadband Gateway**

1. Log into your router using your router IP.
2. On the router's main page, click on **Setup** at the top of the page.
3. On the left side of the page, click on **Advanced settings -> Port Forwarding**.
4. Check in the checkbox for **Enable Port Forwarding**.
5. Click **New** on the right side of the page.
6. Enter the following information on the page:

Global Port:	80
Local Address:	Type in the <b>camera's IP address</b> , for example: 192.168.0.5
Local Port:	80
Type:	TCP
7. Click **Save** to save the settings.
8. Click **New** on the right side of the page.
9. Enter the following information on the page.

Global Port:	9001
Local Address:	Type in the <b>camera's IP address</b> , for example: 192.168.0.5
Local Port:	9001
Type:	UDP
10. Click **Save** to save the settings.
11. Click **Restart** on the left side of the page to restart your router. iCAMView should now be configured to work with your router and be accessible from the internet.

**Siemens (<http://www.speedstream.com>)****SpeedStream 2602 – 2-Port DSL/Cable Router****SpeedStream 2623 – Wireless DSL/Cable Router****SpeedStream 2624 – Wireless DSL/Cable Router**

1. Log into your router using your router IP.
2. After you are logged in, click on **Advanced Setup -> Virtual Servers**.
3. Enter the following information on the page:

## Line #1:

Private IP:	Type in the <b>camera's IP address</b> , for example: 192.168.0.5 (Look at iCAMView's IP Address LCD display for the last 3 digits of the camera's IP address)
Private Port:	80
Type:	TCP
Public Port:	80

## Line #2

Private IP:	Type in the <b>camera's IP address</b> , for example: 192.168.0.5 (Look at iCAMView's IP Address LCD display for the last 3 digits of the camera's IP address)
Private Port:	9001
Type:	UDP
Public Port:	9001

4. Click **Enter** to save the settings. iCAMView should now be configured to work with your router and be accessible from the internet.

**SpeedStream 2604 – 4-port DSL/Cable Router**

1. Log into your router using your router IP.
2. After you are logged in, click on **Advanced Setup -> Virtual Servers**.
3. Under the Properties section, there are a few entries you'll need to add. Check in the checkbox for **Enable**.
4. Under the first box, next to the Enable checkbox, type in: **iCAMView Web**.
5. Under PC (Server), select your camera or the camera's IP address from the list. If the camera is not listed, select the link titled "My PC is not listed."
6. Leave Protocol as **TCP**.

7. Under Internal Port No type in: **80**
8. Under External Port No type in: **80**
9. Click on **Add** to save these settings.
10. In the first box, next to the Enable checkbox, type in: **iCAMView Cam**.
11. In PC (Server), select your camera or the camera's IP address from the list. If the camera is not listed, select the link titled "My PC is not listed."
12. Leave Protocol as **TCP**.
13. Under Internal Port No type in: **9001**
14. Under External Port No type in: **9001**
15. Click on **Add** to save these settings. iCAMView should now be configured to work with your router and be accessible from the Internet.

**SMC (<http://www.smc.com>)****SMC2404WBR – Barricada Turbo 11/22 Mbps Wireless Cable/DSL Broadband Router****SMC7004VBR – Barricada Cable/DSL Broadband Router****SMC7004CWBR – Barricada Wireless Cable/DSL Broadband Router**

1. Log into your router using your router IP.
2. After you are logged in, click **NAT** on the left side of the page.
3. Click on **Virtual Server** on the left side of the page.

4. Enter the following information on the page:

Line #1:

Private IP: Type in the **camera's IP address**, for example:  
192.168.0.5 (Look at iCAMView's IP Address LCD  
display for the last 3 digits of the camera's IP address)

Private Port: 80

Type: TCP

Public Port: 80

Line #2

Private IP: Type in the **camera's IP address**, for example:  
192.168.0.5 (Look at iCAMView's IP Address LCD  
display for the last 3 digits of the camera's IP address)

Private Port: 9001

Type: UDP

Public Port: 9001

5. Click **Apply** to save the settings. iCAMView should now be configured to work with your router and be accessible from the Internet.

**SMC7004AWBR – Barricade 4-port 11Mbps Wireless Broadband Router**

1. Log into your router using your router IP.
2. Click on **Virtual Server** on the left side of the page.
3. Enter the following information on the page:

For ID #1:

Service Port: 80

Private IP: Type in the **camera's IP address**, for example:  
192.168.0.5 (Look at iCAMView's IP Address LCD  
display for the last 3 digits of the camera's IP address)

Enable: Checked in



For ID #2:

Service Port: 9001

Private IP: Type in the **camera's IP address**, for example:  
192.168.0.5 (Look at iCAMView's IP Address LCD  
display for the last 3 digits of the camera's IP address)

Enable: Checked in

4. Click **Save** to save the settings. iCAMView should now be configured to work with your router and be accessible from the Internet.

## ***Appendix B: Methods to Update iCAMView Firmware***

You can update iCAMView firmware using any of the following methods.

### **Method 1: Through iCAMView Web Page**

- (1) Enter iCAMView Web Page
- (2) Go to **About**, click **update software** and you will be automatically linked for update.

### **Method 2: Using the Utility software**

## Appendix C: IP Address, Subnet and Gateway

This section discusses Communities, Gateways, IP Addresses and Subnet masking

### Communities

A community is a string of printable ASCII characters that identifies a user group with the same access privileges. For example, a common community name is "public". For security purposes, the SNMP agent validates requests before responding. The agent can be configured so that only trap managers that are members of a community can send requests and receive responses from a particular community. This prevents unauthorized managers from viewing or changing the configuration of a device.

### Gateways

Gateway, also referred to as a router, is any computer with two or more network adapters connecting to different physical networks. Gateways allow for transmission of IP packets among networks on an Internet.

### IP Addresses

Every device on an Internet must be assigned a unique IP (Internet Protocol) address. An IP address is a 32-bit value comprised of a network ID and a host ID. The network ID identifies the logical network to which a particular device belongs. The host ID identifies the particular device within the logical network. IP addresses distinguish devices on an Internet from one another so that IP packets are properly transmitted.

IP addresses appear in dotted decimal (rather than in binary) notation. Dotted decimal notation divides the 32-bit value into four 8-bit groups, or octets, and separates each octet with a period. For example, 199.217.132.1 is an IP address in dotted decimal notation.

To accommodate networks of different sizes, the IP address has three divisions – Classes A for large, B for medium and C for small. The difference among the network classes is the number of octets reserved for the network ID and the number of octets reserved for the host ID.

Class	Value of First Octet	Network ID	Host ID	Number of Hosts
A	1-126	First octet	Last three octets	16,387,064
B	128-191	First two octets	Last two octets	64,516
C	192-223	First tree octets	Last octet	254

Any value between 0 and 255 is valid as a host ID octet except for those values the InterNIC reserves for other purposes

Value	Purpose
0, 255	Subnet masking
127	Loopback testing and interprocess communication on local devices
224-254	IGMP multicast and other special protocols.

**Subnetting and Subnet Masks**

Subnetting divides a network address into sub-network addresses to accommodate more than one physical network on a logical network.

For example:

A Class B company has 100 LANs (Local Area Networks) with 100 to 200 nodes on each LAN. To classify the nodes by its LANs on one main network, this company segments the network address into 100 sub-network addresses. If the Class B network address is 150.1.x.x, the address can be segmented further from 150.1.1.x through 150.1.100.x

A subnet mask is a 32-bit value that distinguishes the network ID from the host ID for different sub-networks on the same logical network. Like IP addresses, subnet masks consist of four octets in dotted decimal notation. You can use subnet masks to route and filter the transmission of IP packets among your sub-networks. The value "255" is assigned to octets that belong to the network ID, and the value "0" is assigned to octets that belong to the host ID.

For the example above, if you want all the devices on the sub-networks to receive each other's IP packets, set the subnet mask to 255.255.0.0. If you want the devices on a single sub-network only to receive IP packets from other devices on its own sub-network, set the subnet mask to 255.255.255.0 for the devices on the sub-network.

Subnet Mask	Routing and Filtering
0.0.0.0	IP packets are transmitted to all devices.
255.0.0.0	IP packets are only transmitted to devices that are IP that's first octet matches the sender's IP address's first octet.
255.255.0.0	IP packets are only transmitted to devices that are IP that's first two octets match the sender's IP address's first two octets.
255.255.255.0	IP packets are only transmitted to devices that are IP that's first three octets match the sender's IP address's first three octets.

## Appendix D: Glossary

The Glossary section defines the terms used in this User Manual

Term	Definition
Ethernet	Local Area Network technology, originally developed by Xerox Corporation, can link up to 1,024 nodes in a bus network. Ethernet provides raw data transfer in a rate of 10 megabits/sec. with actual throughputs in 2 to 3 megabits/sec. using a baseband (single-channel) communication technique. Ethernet uses carrier sense multiple access collision detection (CSMA/CD) that prevents network failures when two devices attempt to access the network at the same time. LAN hardware manufacturers use Ethernet protocol; their products may not be compatible.
Gateway	A computer that attaches to a number of networks and routes packets between them. The packets can be different protocols at the higher levels.
IP	Internet Protocol – The TCP/IP standard protocol defines the IP datagram as the unit of information passed across a network.
IP Address	Internet Protocol Address – A 32-bit address assigned to hosts participating in a TCP/IP network. The IP address consists of network and host portions. It is assigned to an interconnection of a host to a physical network.
MAC	Medium Access Control - The network layer between the physical and the data link layers. Specifically, the physical (hardware) address exists in this layer.
MIB	Management Information Base – The database, i.e. set of variables maintained by a gateway running SNMP
NMS	Network Management Station
OID	Object Identifier – The variables defined in a MIB
Router	A computer that manages traffic between different network segments or different network topologies. It directs the destination IP address. The network media can be different, but the higher-level protocols must be the same.
SNMP	Simple Network Management Protocol – A standard protocol used to monitor IP hosts, networks, and gateways. SNMP defines a set of simple operations that can be performed on the OIDs of the MIBs managed by the monitored Agents. It employs the UDP/IP transport layer to move its object between the Agents and the NMS
TCP/IP	Transmission Control Protocol/ Internet Protocol – A protocol suite used by more than 15 million users with a UNIX association and widely used to link computers of different kinds.

# ***iCAMView Utility***

User Manual

Version 3.5

## CONTENTS

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## 1.0: Introduction

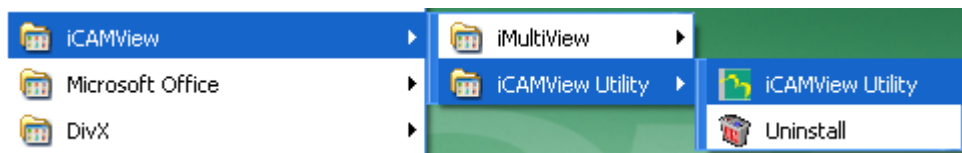
This is a program that helps the user perform quick installation. It will detect the current configuration and take the user through the necessary network setup.

### 1.1. Installation

1. Insert the enclosed Utility CD into the CD-ROM drive. The following menu will show up. Click on the buttons on the left to install the programs you want.



- ☑ **iCAMView Utility** - This is a program that helps the user perform quick installation. It will detect the current configuration and take the user through the necessary network setup.
  - a. Click the iCAMView Utility button to commence installation.
  - b. After the installation is completed, iCAMView Utility program will appear in Windows **Start → All Programs → iCAMView → iCAMView Utility**.



- ☑ **iMultiView** - This is a windows based program is designed to allow user to manage a large number of iCAMView located either in a LAN or WAN.
  - a. Click the **iMultiView** button to commence installation.
  - b. After the installation is completed, iMultiView program will appear in Windows **Start → All Programs → iCAMView → iMultiView**.



- c. After the installation is completed, MultiMonitor program will appear in Windows **Start → All Programs → iCAMView → MultiMonitor**



- ☒ **Read User's Manual** - Click to read iCAMView's User Manual. You will need Adobe Acrobat Reader v5.0 or higher.
- ☒ **Adobe Acrobat Reader v5.0** - This will install Acrobat Reader v5.0 on your local hard drive.
- ☒ **Sun Jave / ActiveX** - Install Sun Java for viewing the video image by Java, or install the OCX for viewing by ActiveX

## 1.2. Using iCAMView Utility

iCAMView Utility main menu is shown below. The selection menu is located on the left. The Serial Number, current Firmware and IP Address of every iCAMView connected to LAN will be displayed on the table to the right.




Fig.1 Utility Main Menu

### 1.2.1 Setup Wizard

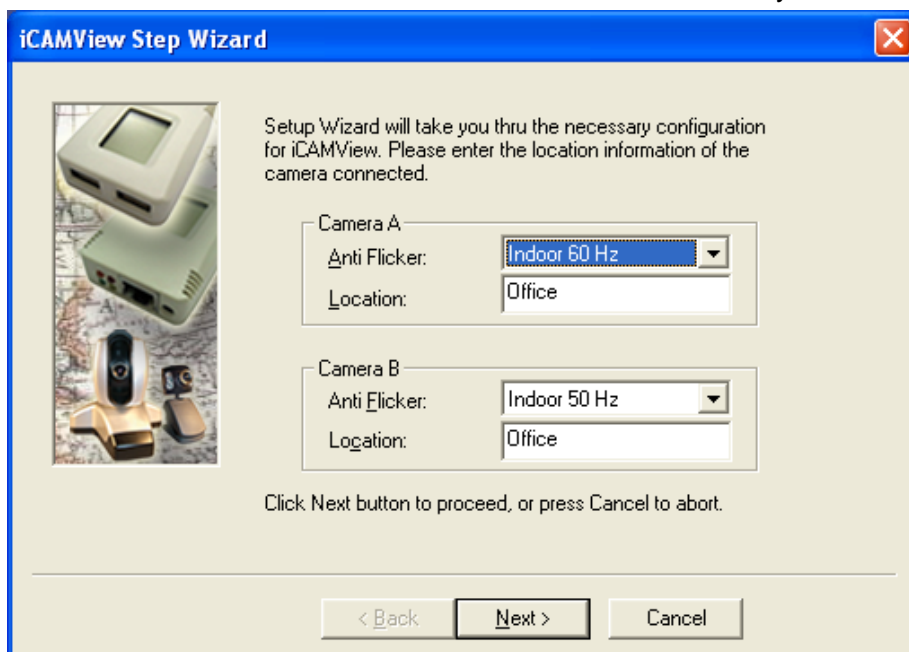
Click **Setup Wizard** to take you through the setup process.

1. Click to select the iCAMView you want to configure on the right.

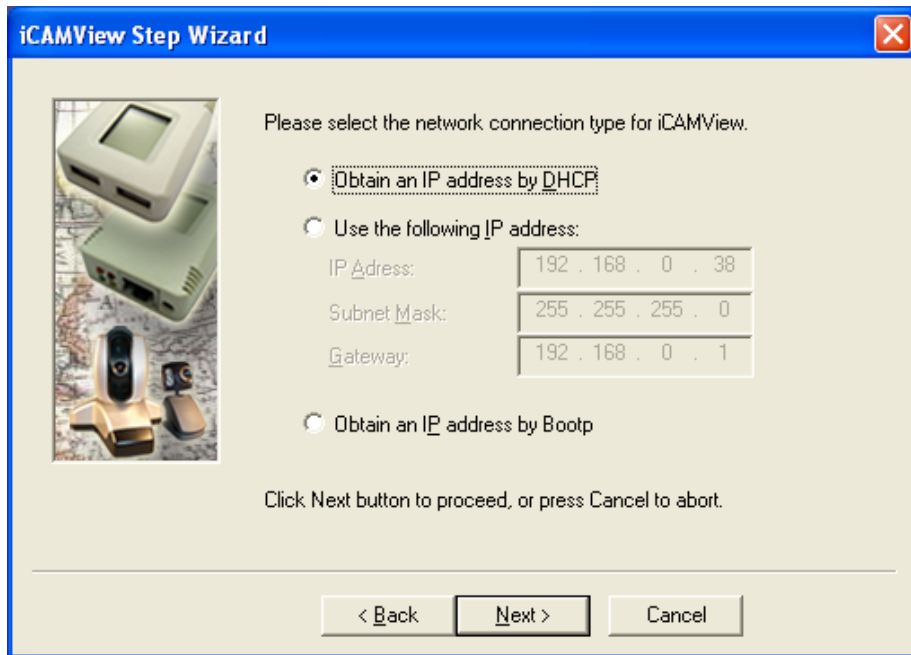
2. Click on **Setup Wizard**.
3. The **Administrator Authentication** login window will appear. This is blank by default. If one has been assigned earlier then enter the administrator account info set in **Basic Settings** → **Account Settings**.

A screenshot of the 'Administrator authentication' dialog box. It has a blue title bar with a close button. The main area is titled 'Administrator information' and contains two text input fields: 'Account:' and 'Password:'. Below the fields are two buttons: 'OK' and 'Cancel'.

4. Enter the necessary camera configurations. Choose the appropriate frequency (Indoor 60 Hz, Indoor 50 Hz or Outdoor) to prevent flickering on the video feed. Enter a name for the camera in the **Location:** box to identify the camera.

A screenshot of the 'iCAMView Step Wizard' dialog box. It has a blue title bar with a close button. On the left is an image of two cameras. The main text says: 'Setup Wizard will take you thru the necessary configuration for iCAMView. Please enter the location information of the camera connected.' Below this are two sections for 'Camera A' and 'Camera B'. Each section has a dropdown menu for 'Anti Flicker' (set to 'Indoor 60 Hz' for Camera A and 'Indoor 50 Hz' for Camera B) and a text input field for 'Location' (both set to 'Office'). At the bottom, there is a message: 'Click Next button to proceed, or press Cancel to abort.' and three buttons: '< Back', 'Next >', and 'Cancel'.

5. Click **Next >** to configure the Network Connection.

**Obtain an IP address by DHCP**

Choose this if you want your Router to assign an IP address to iCAMView.

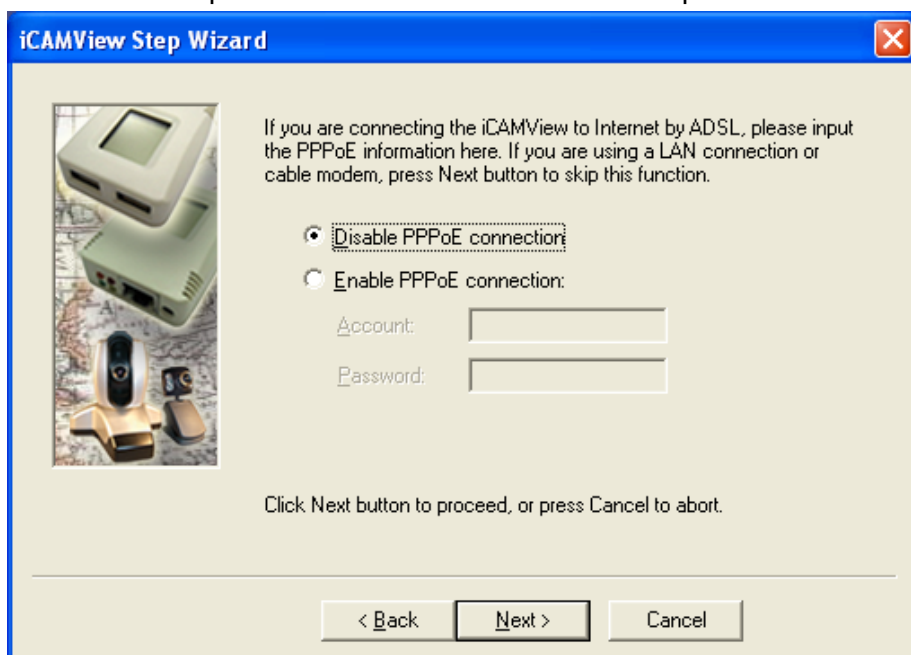
**Use the following IP Address**

Choose this if you want to enter a fix IP address, Subnet Mask and Gateway for iCAMView.

**Obtain an IP address by Bootp**

Choose this if you want to allow iCAMView to obtain an IP address using Bootp protocol.

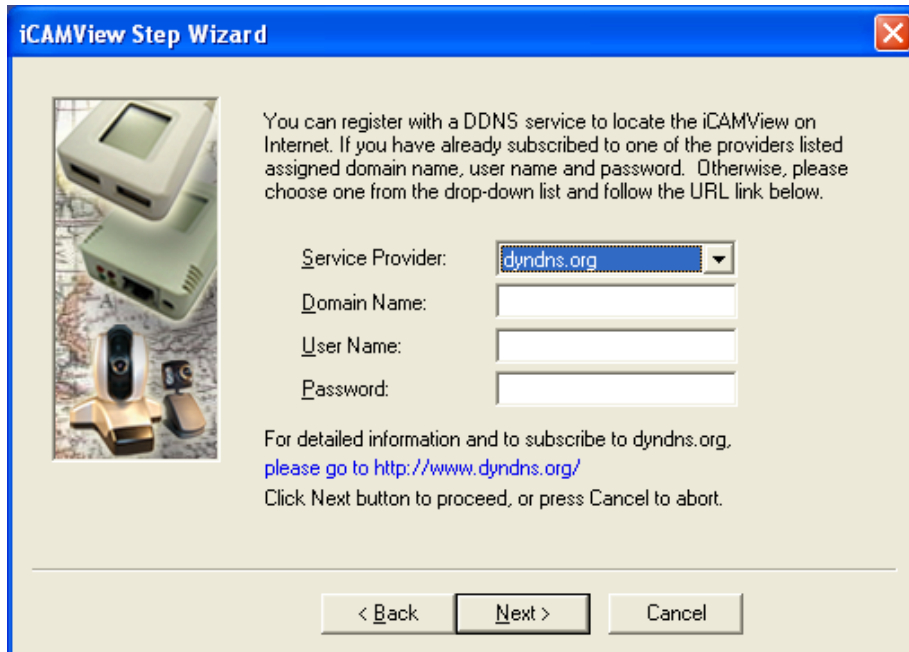
6. Click **Next >** to proceed to xDSL/Cable modem setup.



Choose this if you want iCAMView to connect directly to your xDSL line.

- a. Select **Enable PPPoE connection**
- b. Enter your account and password details as provided by your internet service provider ("ISP").
- c. iCAMView will be able to dial-up automatically once setup is completed.

7. Click **Next >** to proceed with DDNS setup



The screenshot shows the 'iCAMView Step Wizard' window. On the left is an image of the iCAMView device. The main text explains that you can register with a DDNS service to locate the device on the Internet. It provides instructions for users who have already subscribed to a service versus those who need to choose one. Below the text are four input fields: 'Service Provider' (a dropdown menu with 'dyndns.org' selected), 'Domain Name', 'User Name', and 'Password'. A note mentions that for detailed information and to subscribe to dyndns.org, users should go to <http://www.dyndns.org/>. At the bottom are three buttons: '< Back', 'Next >', and 'Cancel'.

DDNS service allows you to assign a Domain Name to your Dynamic IP. This way, you will always be able to locate your device over the internet.

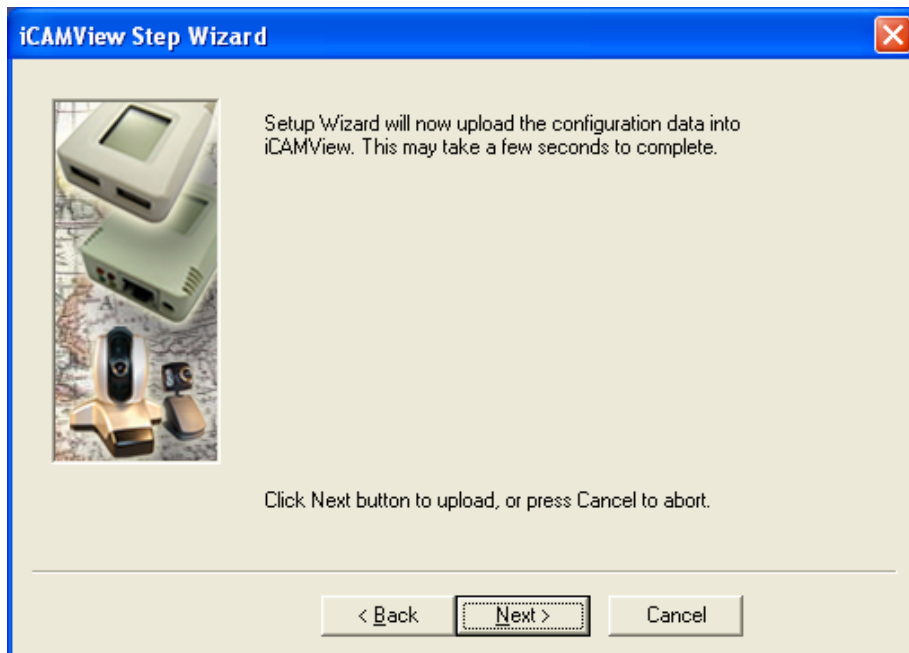
8. Click **Next >** to change your administrator account and password information.



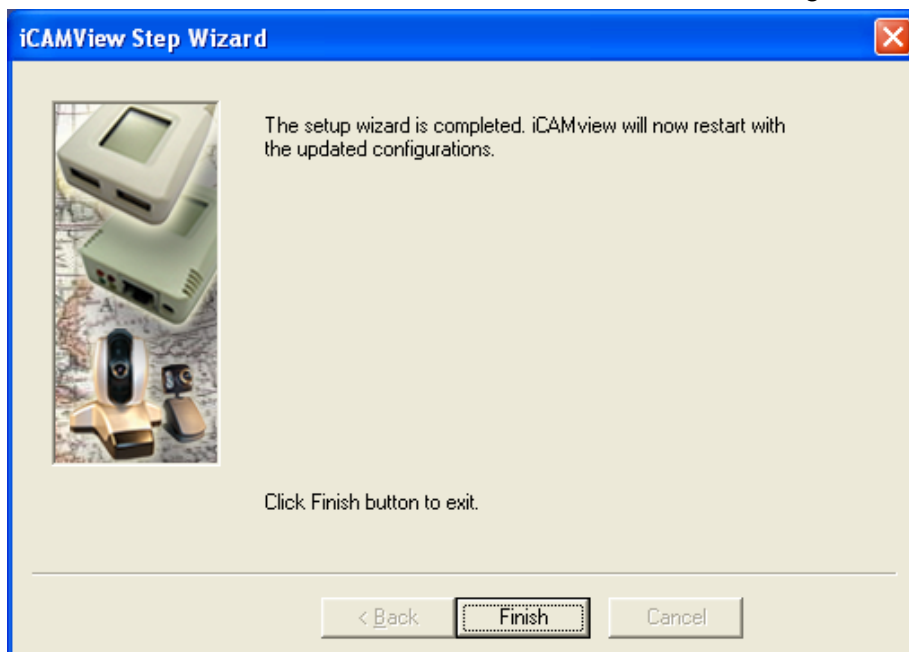
The screenshot shows the 'iCAMView Step Wizard' window for administrator account setup. On the left is an image of the iCAMView device. The main text states that to ensure privacy, the user should set an administrator account and password. It includes a note that if these fields are left empty, the device will be accessible to the public. Below the text are two input fields: 'Account' (with 'admin' entered) and 'Password' (with 'xxxxxx' entered). A 'WARNING' section states that once the account and password are set, they cannot be changed. At the bottom are three buttons: '< Back', 'Next >', and 'Cancel'.

An **administrator account** is necessary to ensure privacy. If you do not want to set one, clear the data in both fields. The fields are case sensitive.

9. Click **Next >** to confirm these configuration.



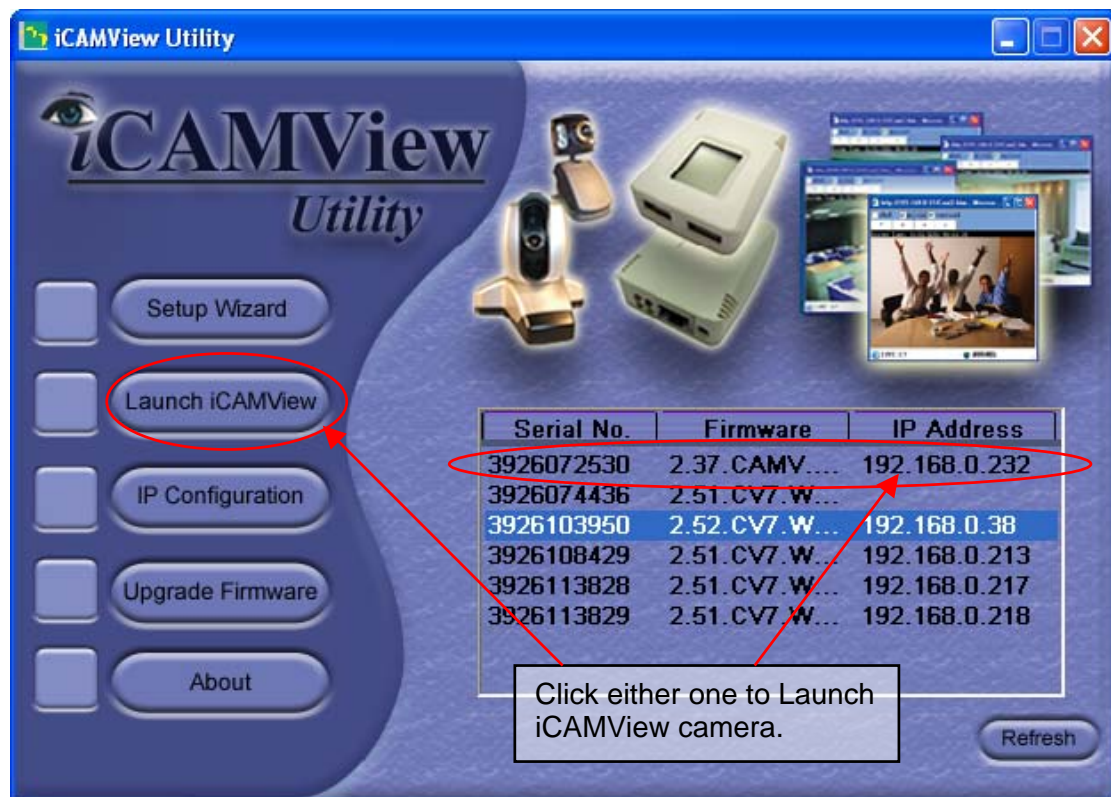
10. Click **Next >** to save and restart iCAMView with the new configurations.



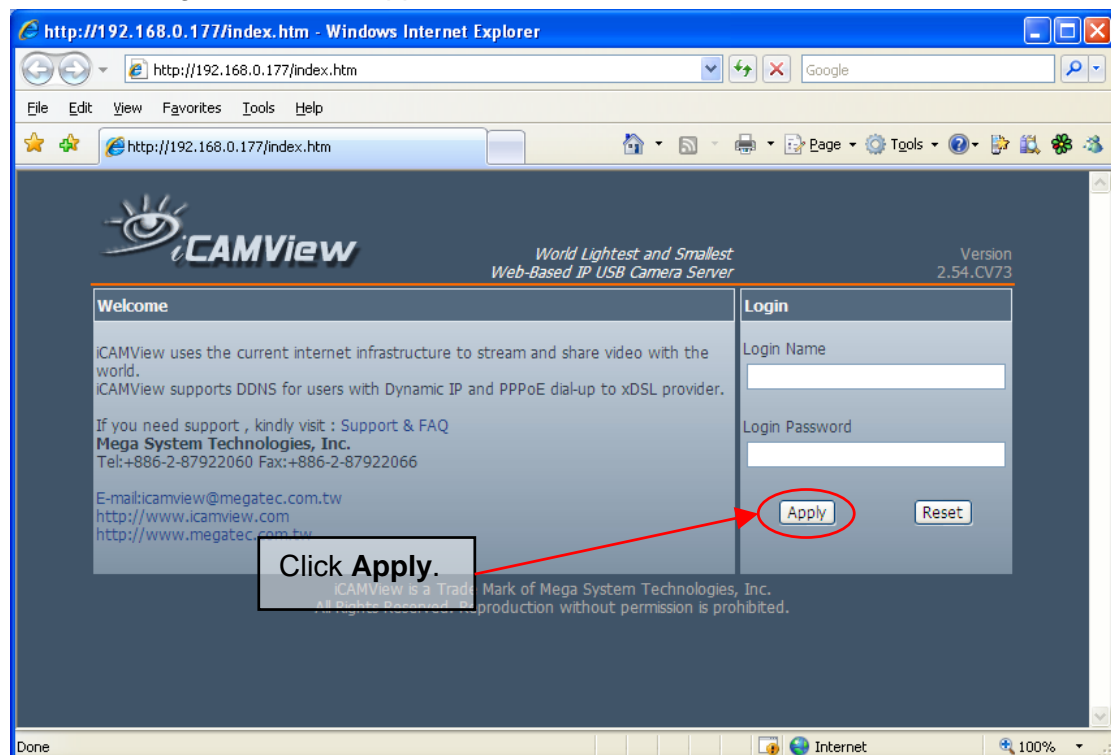


### 1.2.2 Launch iCAMView

Click **Launch iCAMView** or double click the iCAMView listed in the table to launch it.

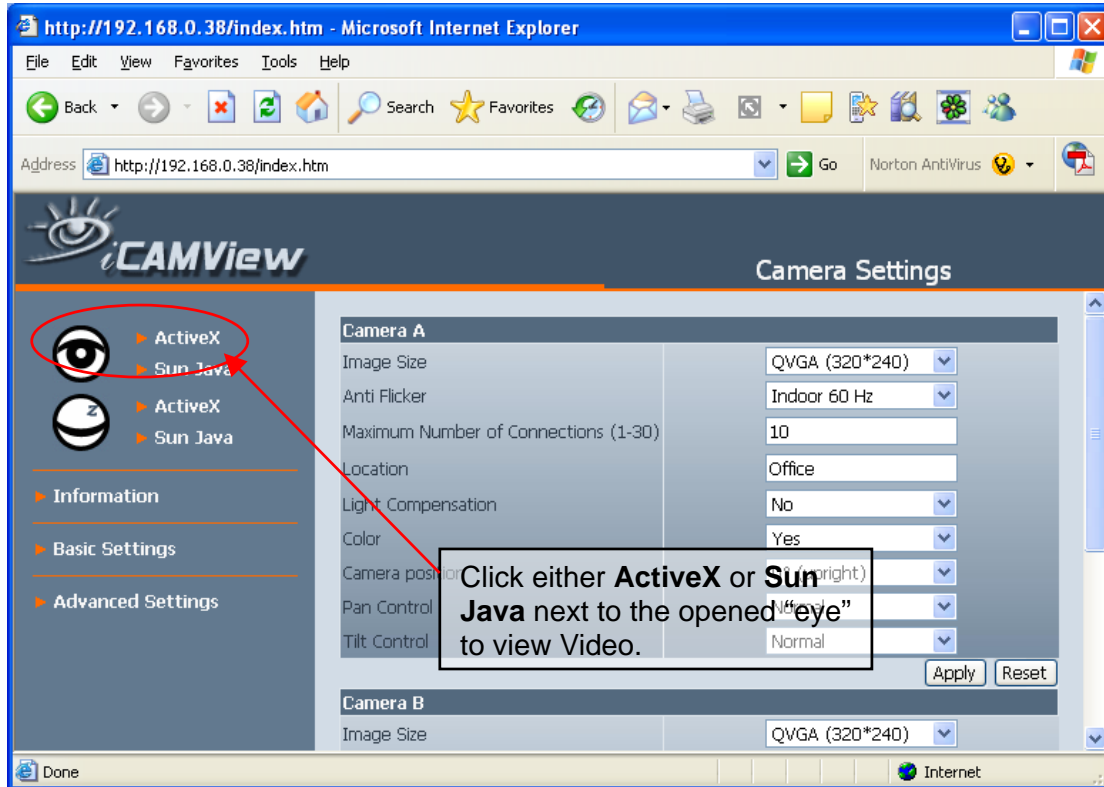


iCAMView login screen will appear.



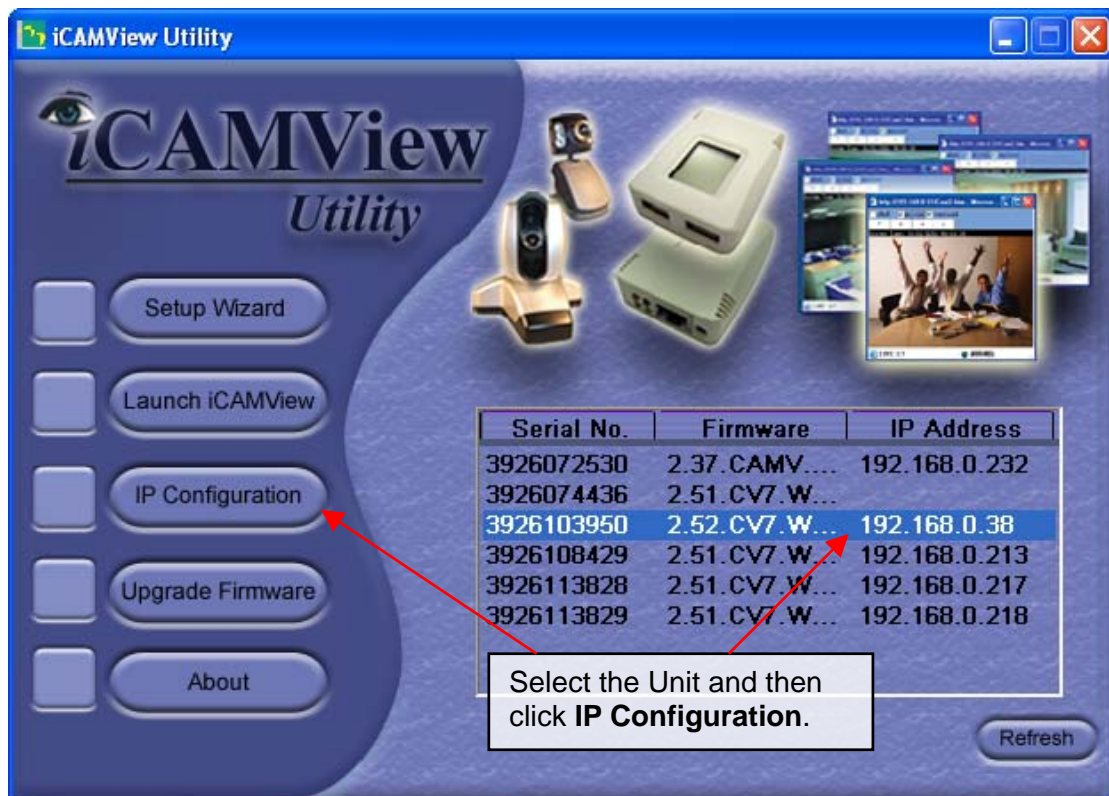
Enter the **Account (Login Name)** and **Password (Login Password)** set earlier. Otherwise, use the default login and password at the back of iCAMView unit. If you did not configure one, then just click **Apply** to login.

iCAMView User Interface webpage will appear. Click either **ActiveX** or **Sun Java** next to a blinking eye to view the video images.



### 1.2.3 IP Configuration

This section allows you to configure the IP address for iCAMView. You do not have to edit this section if you have gone thru **Setup Wizard** earlier.



Select the iCAMView unit on the right display screen, and click **IP Configuration**. This will bring up the following configuration window.

### 1.2.3.1 IP Address

Use this section to configure the IP Address of iCAMView.

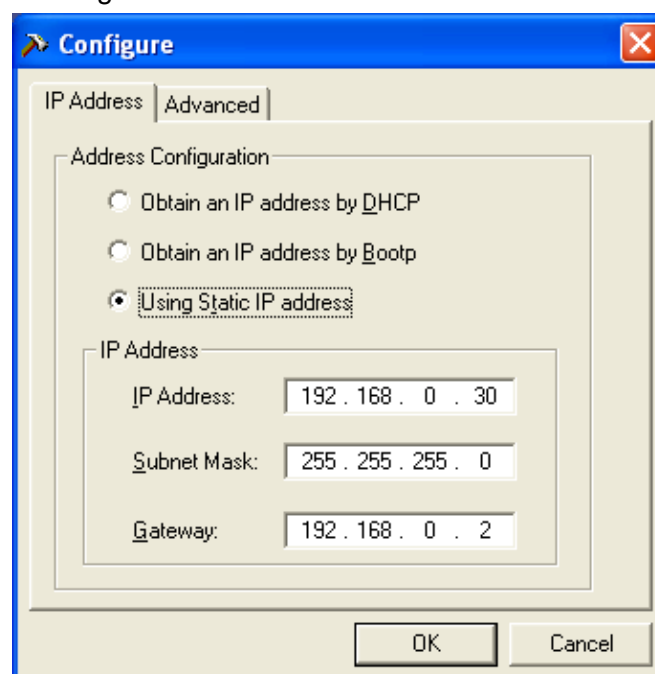


Fig.2 IP Configuration: IP Address

### Obtain an IP address by DHCP



Choose this if you want your Router to assign an IP address to iCAMView. This is the default setting.

#### **Obtain an IP address by Bootp**

Choose this if you want to allow iCAMView to obtain an IP address using Bootp protocol.

#### **Use the following IP Address**

Choose this if you want to assign a fix IP address, Subnet Mask and Gateway for iCAMView.

### **1.2.3.2 Advanced (for password and HTTP configuration)**

This section sets security password against unauthorised access to devices through this Utility.

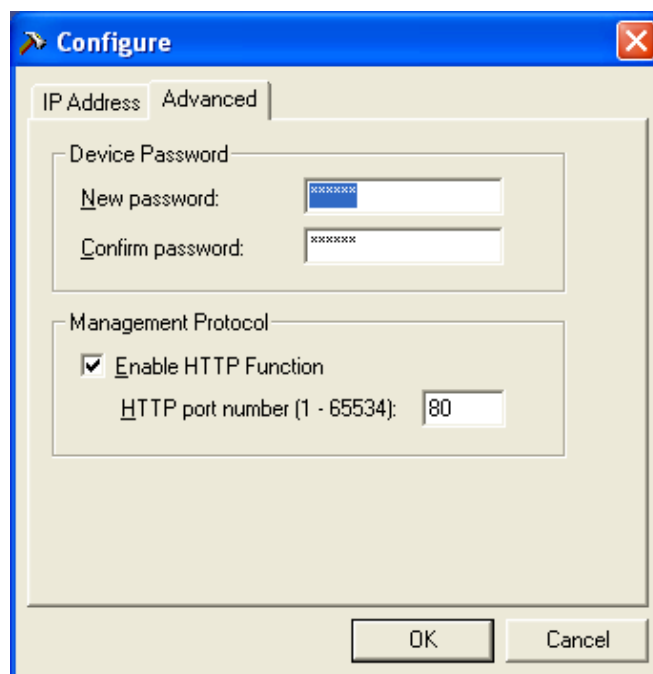


Fig.3 IP Configuration: Advanced settings

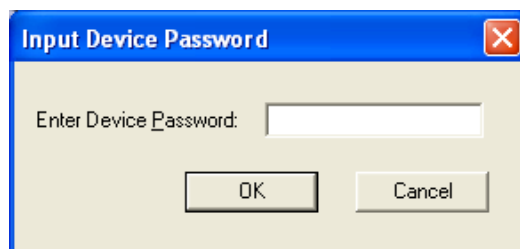
#### **i. Device Password (when accessing from Utility)**

Use this to set an access password to iCAMView Utility. Once set, the IP Address will not be shown on the right display panel (*see below*).

**Device Password** can only be set for iCAMView from within the same LAN by an Administrator.



Once set, Utility will request for the **Device Password** when you try to click on either, **Setup Wizard**, **Launch iCAMView** or **IP Configuration** button.



To remove the password,

- Select the iCAMView unit from the Utility list.
- Click **IP Configuration**.
- Enter the unit's **Device Password**
- Go to **Advanced** → **Device Password** and delete both the entries.
- Click **OK** to confirm.



**NOTE:**

If the password is lost, you must use the Master Password to reset the Password field

## ii. Management Protocol

This setting allows the administrator to determine the LAN HTTP access (web) to iCAMView IP camera. To limit access, the administrator can choose to use either the default open port 80 or other ports (between 1 to 65534).

Once the HTTP port number is set to another port (other than 80), the full LAN IP address must be entered in order to access the iCAMView web interface.

**Example:**

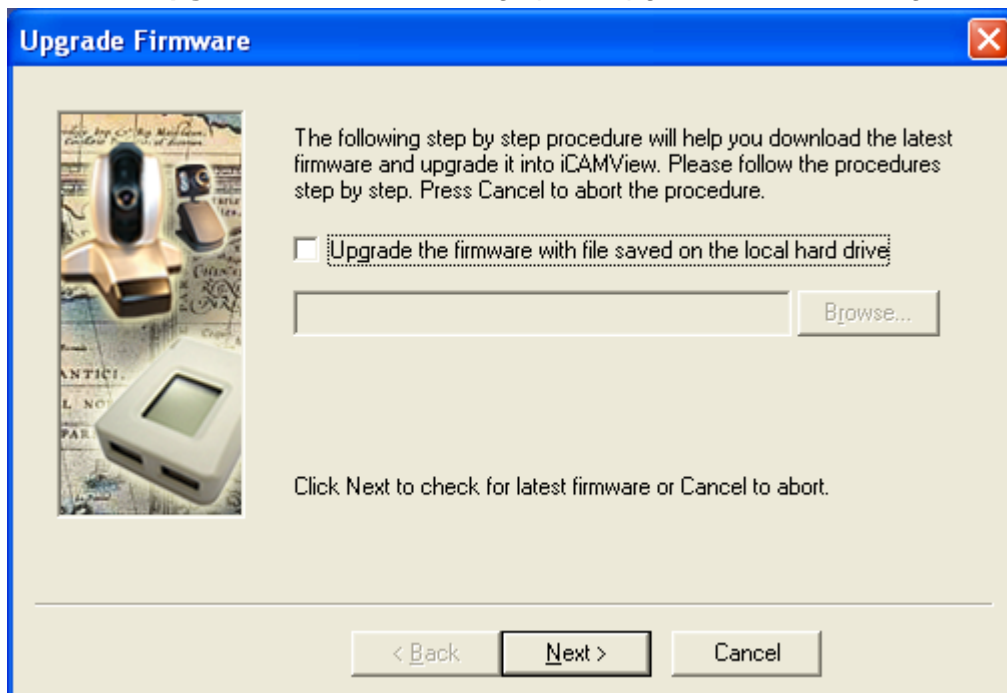
If a value of say, 8080 is set as the **HTTP port number**, then enter `http://192.168.0.177:8080` in order to access iCAMView web interface.

Uncheck to disable this function.

### 1.2.4 Upgrade Firmware

Select the unit that will be upgraded from the list to the right. (Select multiple unit by holding on to **<Ctrl>** and left clicking.

Then click **Upgrade Firmware** to bring up the upgrade firmware dialog box.



To check the internet for the latest firmware, click **Next**

Otherwise, check **Upgrade the firmware with file saved on the local hard drive**. Click **Browse** to choose the location where the \*.bin file is located.

### 1.2.5 About

Click this button to show the software and version details.

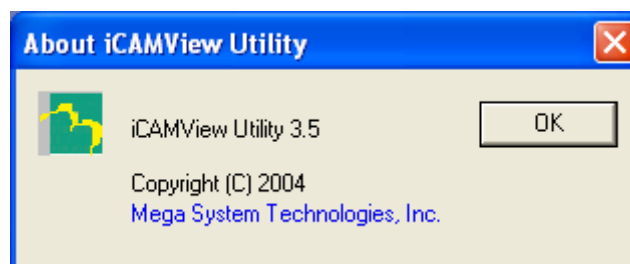


Fig.4 About Utility

### 1.2.6 Refresh

Utility will automatically search for any iCAMView IP cameras that are connected in the same LAN. It will periodically refresh this list to show the latest status.

The user can do a manual search by clicking the **Refresh**.



Fig.5 Refresh option in Utility

# *iMultiView*

## User Manual

For v4.10

**For use with iCAMView Plus & iCAMView PRO**



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## 1.0. Introduction

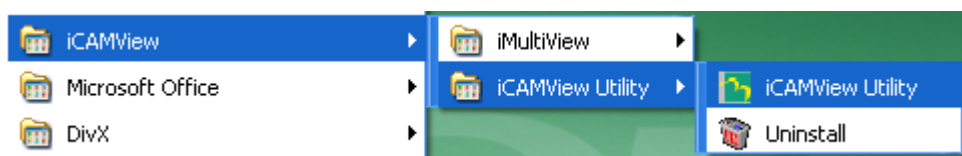
iMultiView is a program to manage multiple WebCAM. It is able to detect the IP address of all WebCAM installed in LAN and list them for easy management. For units that are located on WAN, the administrator will have to manually add these in.

### 1.1. Installing the program from CD

1. Insert the enclosed Utility CD into the CD-ROM drive. The following menu will show up. Click on the buttons on the left to install the programs you want.



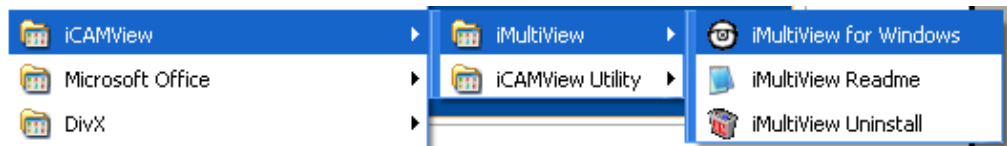
- ☑ **iCAMView Utility** - This is a program that helps the user perform quick installation. It will detect the current configuration and take the user through the necessary network setup.
  - a. Click the **iCAMView Utility** button to commence installation.
  - b. After the installation is completed, iCAMView Utility program will appear in Windows, **Start → All Programs → iCAMView → iCAMView Utility**. Click this to start the program.



- ☑ **iMultiView** - This is a windows based program designed to allow user to control a large number of WebCAM IP camera located either in a LAN or WAN.
  - a. Click the **iMultiView** button to commence installation.



- b. After the installation is completed, iMultiView program will appear in Windows **Start → All Programs → iCAMView → iMultiView for Windows**



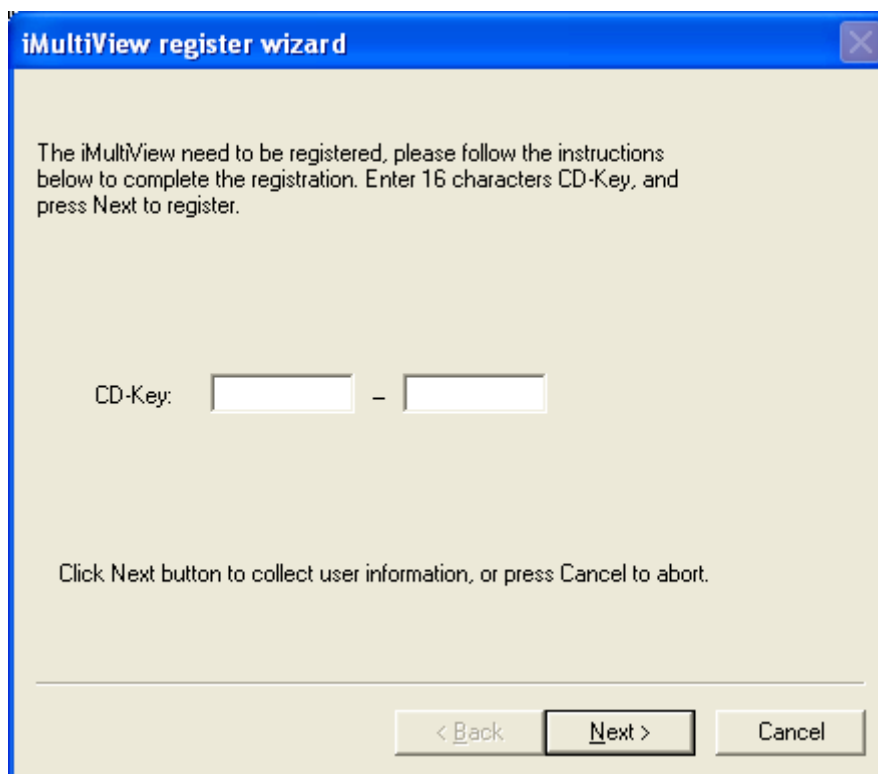
- ☒ **Read User's Manual** - Click to read WebCAM's User Manual. You will need Adobe Acrobat Reader v5.0 or higher.
- ☒ **Adobe Acrobat Reader v5.0** - This will install Acrobat Reader v5.0 on your local hard drive.
- ☒ **Sun Java / ActiveX** - Install Sun Java for viewing the video image by Java, or install the OCX for viewing by ActiveX

## 1.2. Using iMultiView

When using iMultiView for the first time, it will ask you to enter the CD-Key. This can be found on the utility CD.



**Note:** You will need to turn off Anti-Virus program during installation.



Fill out the necessary information shown below and click **Next >**.



**iMultiView register wizard**

Please provide the following information for registration:

1. Your Name/Company:	iCAMView/MST
2. Country:	TAIWAN
3. Email Address:	service@iCAMView.com
4. Product Name:	iMultiView
5. Serial Number:	
6. Firmware version:	3.20
7. Comment:	

Click Back to return to CD-Key page, click Next button to send registration, or press Cancel to abort.

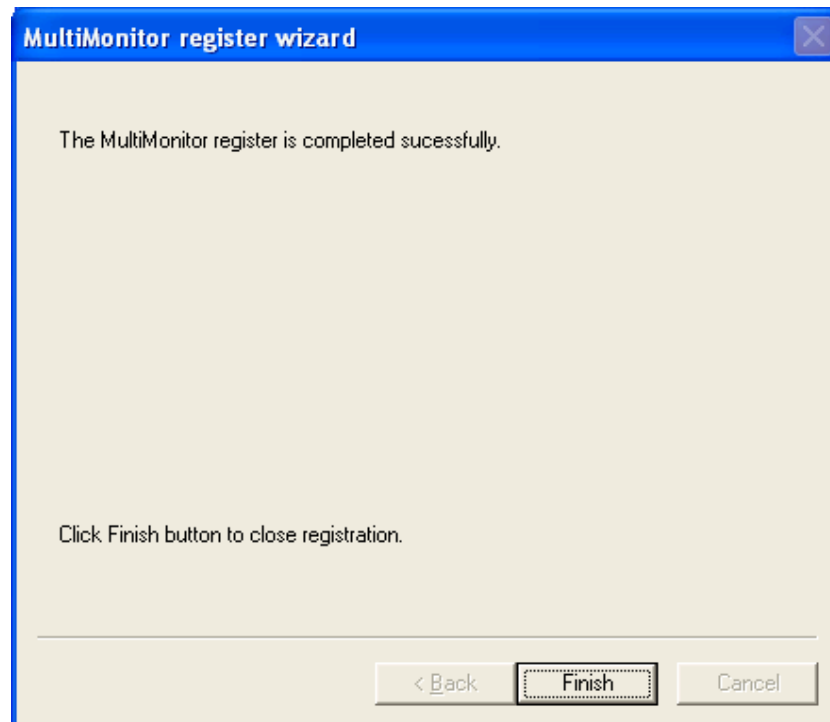
< Back   Next >   Cancel

**iMultiView register wizard**

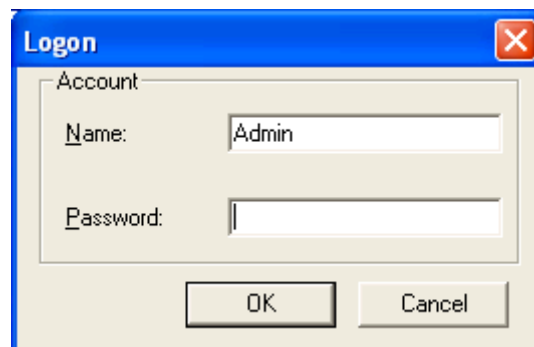
The iMultiView register is completed successfully.

Click Finish button to close registration.

< Back   Finish   Cancel



Click **Finish** and the iMultiView **Logon** window below will pop up. Just click **OK** to start using iMultiView



**Note:** The default security Logon name is **Admin**, no password is set. To set a password, click **User → Change Password ... → New Password**

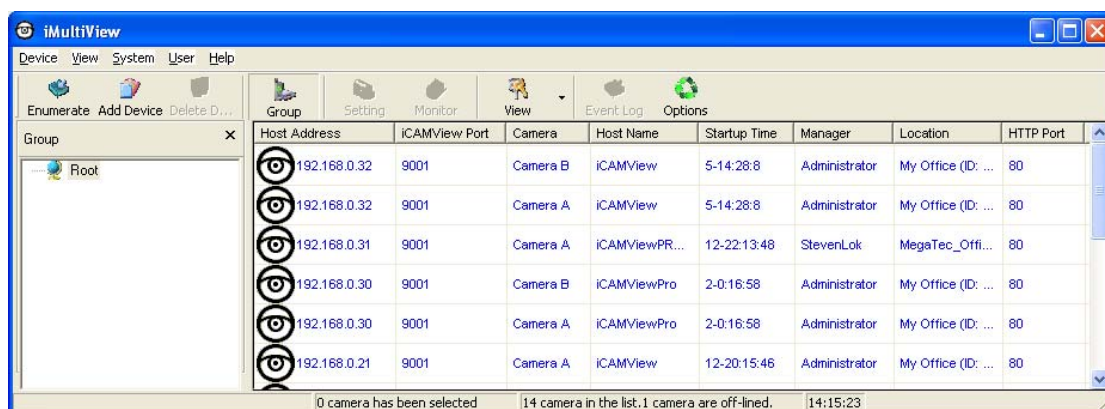


Fig.1 iMultiView Interface

### 1.2.1 Enumerate



Start iMultiView and press the “Enumerate” button, iMultiView will start a search for all the iCAMView units on the network and list them in the main window.

Once detected, the following will show in the main window:

Group	Host Address	iCAMView Port	Camera	Host Name	Startup Time	Manager	Location	HTTP Port
Root	192.168.0.32	9001	Camera B	iCAMView	5-14:29:3	Administrator	My Office (ID: ...)	80
	192.168.0.156	9001	Camera A	iCAMViewPro	1-1:57:5	Administrator	My Office (ID: ...)	80
	192.168.0.111	9001	Camera A				(ID: 15)	80

This shows that iCAMView is currently online and can transmit video.

Group	Host Address	iCAMView Port	Camera	Host Name	Startup Time	Manager	Location	HTTP Port
Root	192.168.0.32	9001	Camera B	iCAMView	5-14:29:3	Administrator	My Office (ID: ...)	80
	192.168.0.156	9001	Camera A	iCAMViewPro	1-1:57:5	Administrator	My Office (ID: ...)	80
	192.168.0.111	9001	Camera A				(ID: 15)	80

This shows that iCAMView is online but image can not be transmitted. Check and see if the UDP port setting is correct.

Group	Host Address	iCAMView Port	Camera	Host Name	Startup Time	Manager	Location	HTTP Port
Root	192.168.0.32	9001	Camera B	iCAMView	5-14:29:3	Administrator	My Office (ID: ...)	80
	192.168.0.156	9001	Camera A	iCAMViewPro	1-1:57:5	Administrator	My Office (ID: ...)	80
	192.168.0.111	9001	Camera A				(ID: 15)	80

This shows that iCAMView is off-line

### 1.2.2 Add Device



 A dialog box titled "Add iCAMView" with a blue header and a red close button. It contains several tabs: "SNMP", "Scheduled Recording", "Face Tracking", "General", "Camera", "Motion Detect", and "Email". The "General" tab is selected. Inside the dialog, there are two radio buttons: "Access by iCAMView Address" (selected) and "Access by Image Serve". Under "Access by iCAMView Address", there are fields for "Host Address:" and "Remote Port:" (containing "9001"). Under "Access by Image Serve", there are fields for "Image Server Address:", "Image Server port:" (containing "9020"), "iCAMView Name:", and "iCAMView Password:". At the bottom right are "OK" and "Cancel" buttons.

Manually adds iCAMView camera to be monitored.

#### **a. Access by iCAMView Address**

##### **Host Address:**

Enter either the WEB address (without the www eg: iCAMView.myddns.com) or LAN IP of iCAMView (eg: 192.168.0.38)

##### **Remote Port:**

This is iCAMView UDP port. This should correspond to Basic Settings → Network → Port Number ...

#### **b. Access by iImage Server**

##### **iImage Server Address:**

Enter the iImage Server Address if available.

##### **iImage Server Port:**

Enter the iImage Server UDP port, if necessary.

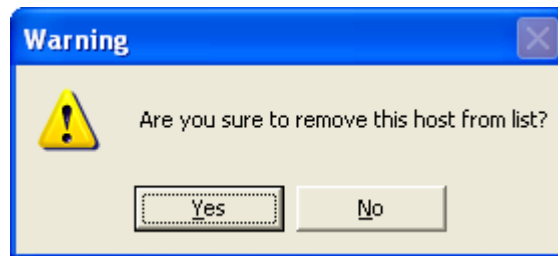
##### **iCAMView Name:**

Enter the assigned login name for this iCAMView.

##### **iCAMView Password:**

Enter the assigned password for this iCAMView.

### **1.2.3 Delete Device**

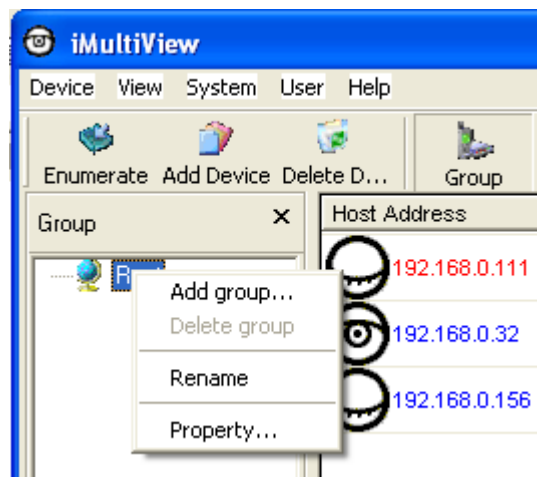


Highlight the unit to be deleted from iMultiView list. Click **Yes** to confirm deletion.

### 1.2.4 Group



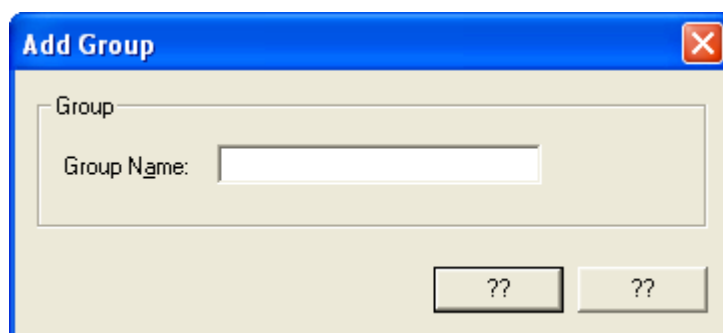
This will bring up a folder listing in “tree” format.



Right click on the **Root** icon to bring up the option box.

#### Add group...

Click to bring up the add group window. Assign a name to the group. Sub-groups can be created using the same process.



#### Delete group

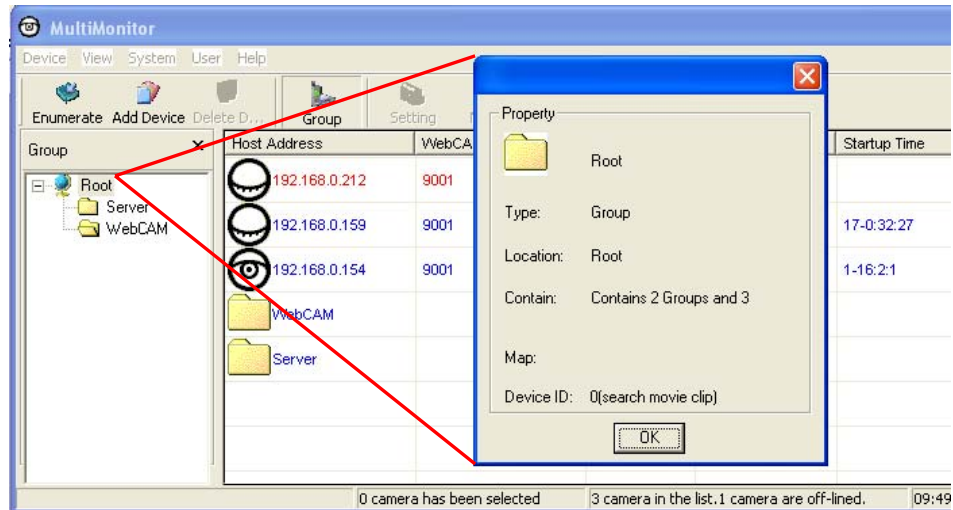
Click to delete the highlighted group.

**Rename**

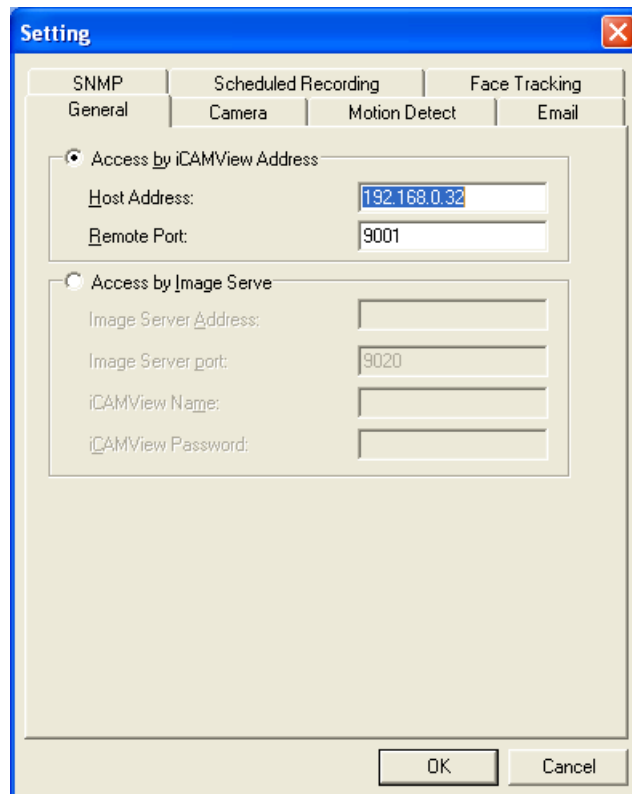
Click to rename the group.

**Properties...**

Click to bring up the group properties dialog box.



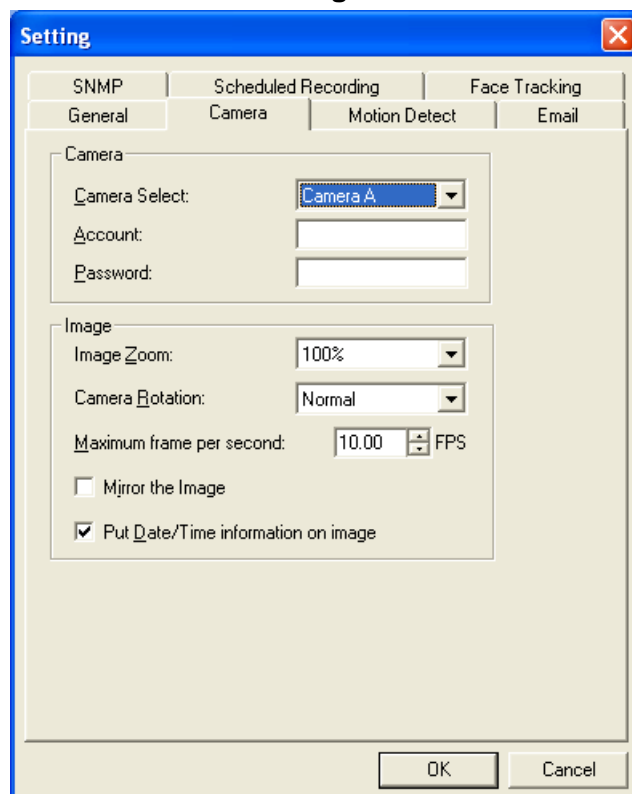
## 1.2.5 Setting



The 'Setting' dialog box is shown with the 'General' tab selected. It features a tabbed interface with 'SNMP', 'Scheduled Recording', 'Face Tracking', 'General', 'Camera', 'Motion Detect', and 'Email'. The 'Access by iCAMView Address' section is active, showing 'Host Address' as 192.168.0.32 and 'Remote Port' as 9001. The 'Access by Image Serve' section is inactive. 'OK' and 'Cancel' buttons are at the bottom.

Use this function to change the *selected* iCAMView IP Address & UDP Port Number.

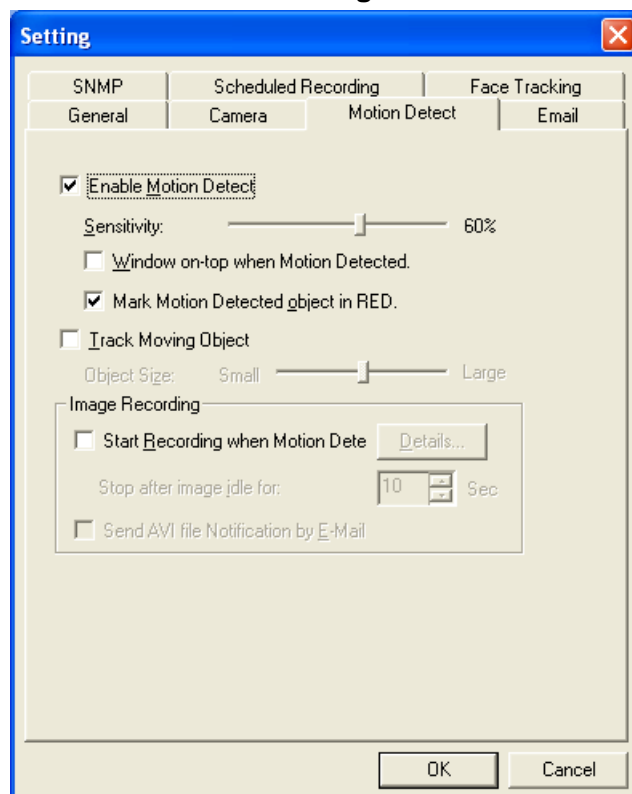
**Display the current Camera settings.**



The 'Setting' dialog box is shown with the 'Camera' tab selected. The 'Camera' section includes a 'Camera Select' dropdown menu set to 'Camera A', and input fields for 'Account' and 'Password'. The 'Image' section includes 'Image Zoom' (100%), 'Camera Rotation' (Normal), 'Maximum frame per second' (10.00 FPS), and checkboxes for 'Mirror the Image' (unchecked) and 'Put Date/Time information on image' (checked). 'OK' and 'Cancel' buttons are at the bottom.

<b>Camera Select:</b>	Select either camera A or B
<b>Account:</b>	If you have setup user account, the information must be entered here. Otherwise access will be denied.
<b>Password:</b>	Enter the above account password.
<b>Image Zoom:</b>	Resize the window to between 25% and 200%
<b>Camera Rotation:</b>	Use this function to keep the camera up-right.
<b>Mirror the Image:</b>	To mirror the image.
<b>Maximum frame per second:</b>	Select from 0.01 fps to a maximum of 30.00 fps. Default is set to 10.00 FPS.
<b>Put Date/Time information on image</b>	To have the date and time displayed on captured images.

#### Display the Motion Detection Settings.

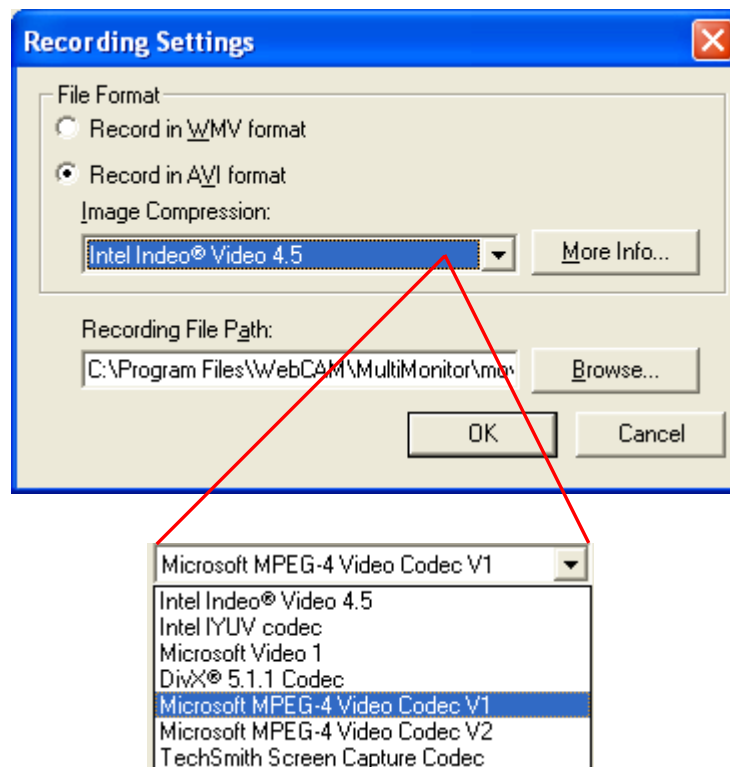


**Enable Motion Detection:** Click the checkbox to enable Motion Detection.

**Note:** This feature does not requires the Camera Window be active to work.



<b>Sensitivity:</b>	Choose from 0% to 100% (very sensitive)
<b>Window on-top when Motion Detected</b>	Automatically displays camera window on top of all other windows/applications when motion is detected.
<b>Mark Motion Detected object in RED</b>	Choose this option to highlight in RED which object is being tracked.
<b>Track Moving Object</b>	Choose this option to calibrate approximate size of object to be tracked.
<b>Image Recording</b>	Click <b>Start Recording when Motion Detected</b> to enable the feature. Click <b>Details...</b> for the following options;



<b>File Format</b>	Choose between WMV or AVI format. For AVI select additional option under <b>Image Compression</b> .
<b>Image Compression:</b>	Choose from the list for available Codec in your PC. <b>Note:</b> This list is dependent on the Codec that is already installed on the local PC. To record in MPEG-4, make sure you install or upgrade to Windows Media Player v10.
<b>Recording AVI File</b>	Location where the file will be recorded to.

**Path** Click **Browse** to change the file location.

**Note:**

- a. Recorded files are saved using the following file extension;  
*avifile[three digit numerical sequence].*
- b. Use the **Detail View** to check the stop time. You can change the display view or add a new folder here.

**Stop after idle for:** Set the value between 1 to 100 seconds  
**Send AVI file** Send an AVI file via email in the event any  
**Notification by Email:** motion is detected.

**Configure Settings for Email Notification**

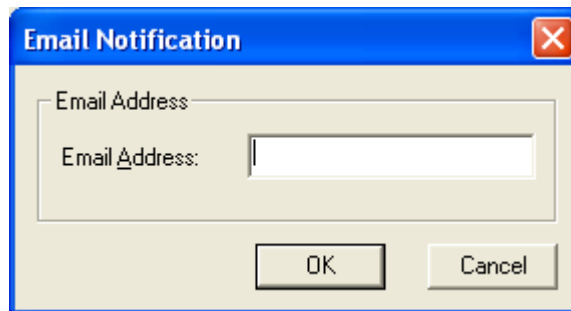
You will need to enter the correct **Message Sender Information** in order for iCAMView to send emails.

**Server require authentication**

Click **Settings...** then enter your **Account Name** and **Account Password**.

### Notified Email Address

Click **Add...** and enter a new Email address below

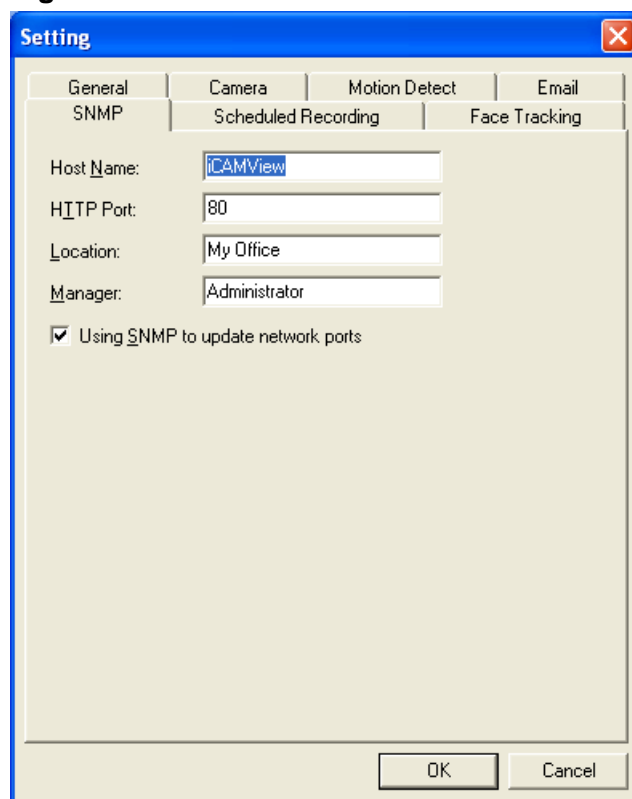


The 'Email Notification' dialog box has a blue title bar with a close button. It contains a text input field labeled 'Email Address:' and two buttons at the bottom: 'OK' and 'Cancel'.

Click **Modify...** to modify the entered Email Address

Click **Delete** to remove an email address from the notification list.

### SNMP Settings



The 'Setting' dialog box has a blue title bar with a close button. It features a tabbed interface with tabs for 'General', 'Camera', 'Motion Detect', 'Email', 'SNMP', 'Scheduled Recording', and 'Face Tracking'. The 'SNMP' tab is selected. It contains the following fields: 'Host Name:' (with 'iCAMView' entered), 'HTTP Port:' (with '80' entered), 'Location:' (with 'My Office' entered), and 'Manager:' (with 'Administrator' entered). There is a checked checkbox labeled 'Using SNMP to update network ports'. 'OK' and 'Cancel' buttons are at the bottom right.

**Host Name:** Provide a Name to identify this device.

**HTTP Port:** Enter the HTTP port assigned for iCAMView. Default is **80**, or check in the Web Interface under **Basic Settings → Networks → Port Number**.

**Location:** Provide a location for administrator to track device.

**Manager:** Enter an administrator's name for identification.

#### Use SNMP to update network ports

Check this box if you want iMultiView to automatically update the HTTP

port as set in;

- Web Interface, **Basic Settings** → **Network** → **Port Number** → **HTTP port number** or in
- Utility, **IP Configuration** → **Advanced** → **Management Protocol**

## Scheduled Recording

**Setting**

General Camera Motion Detect Email  
SNMP Scheduled Recording Face Tracking

☒ **Enable Scheduled Recording**

Every: 1 Day

Segment 1

Start: 00 Hour 00 Min.

Stop: 00 Hour 05 Min.

No.2 Item

Start: 00 Hour 00 Min.

Stop: 00 Hour 05 Min.

Segment 2

☒ Use different Settings from Motion Detect Recording.

☐ Record in WMV format

☒ Record in AVI format

Image Compression: Intel Indeo® Video 4.5 More Info...

Recording File Name : C:\Program Files\iCAMView\iMultiView Browse...

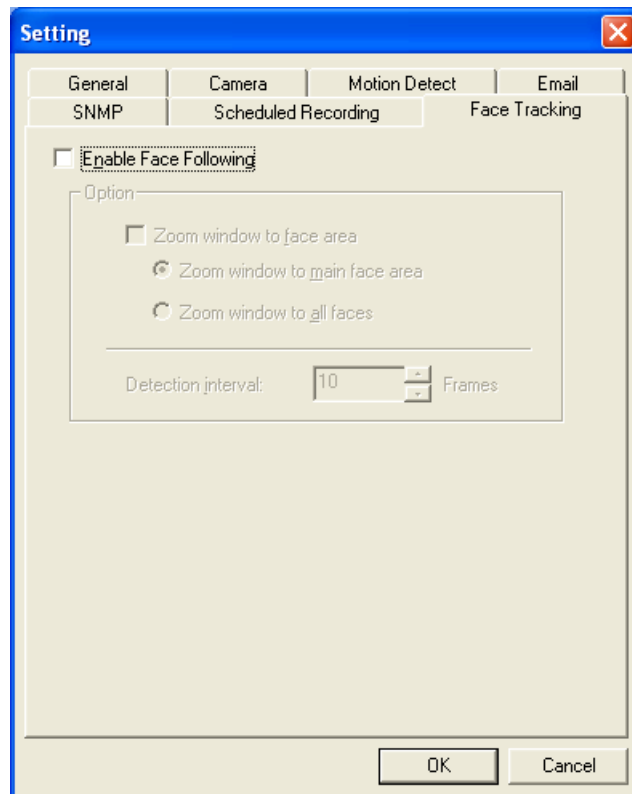
OK Cancel

Enter integer between 1 to 30.

Scheduled recording time #1

Scheduled recording time #2

## Face Tracking



**Zoom  
window to  
face area**

Zoom window to facial area.

**Zoom  
window to  
main face  
area**

Zoom in to the biggest object.

**Zoom  
window to all  
faces**

Zoom in to area.

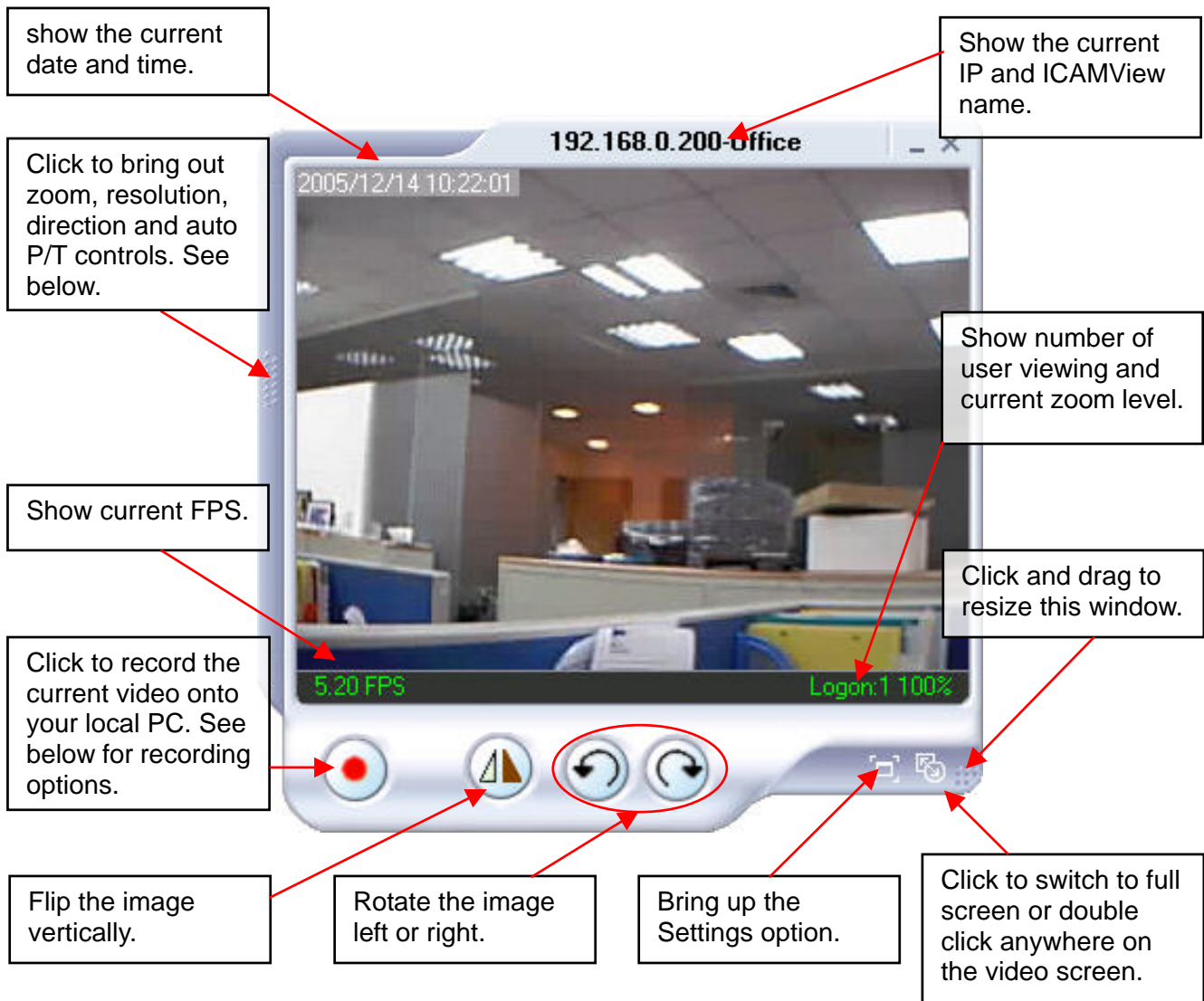
**Detection  
Interval**

The smaller the number, the more frequent each detection is done.

### 1.2.6 Monitor



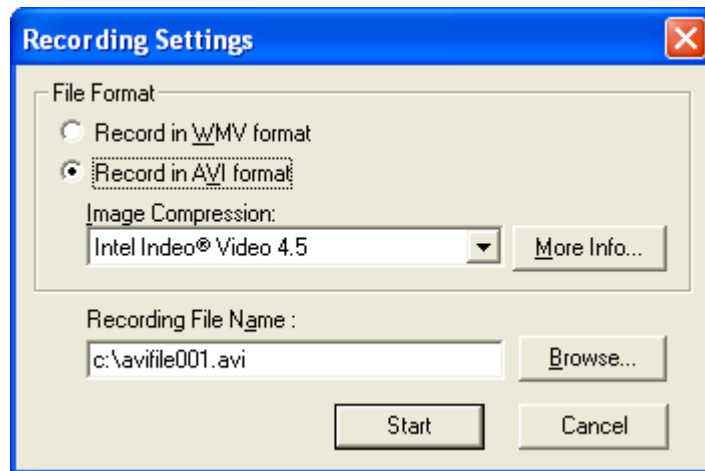
Highlight the iCAMView unit in the main windows display, and click **Monitor** to view the video stream.



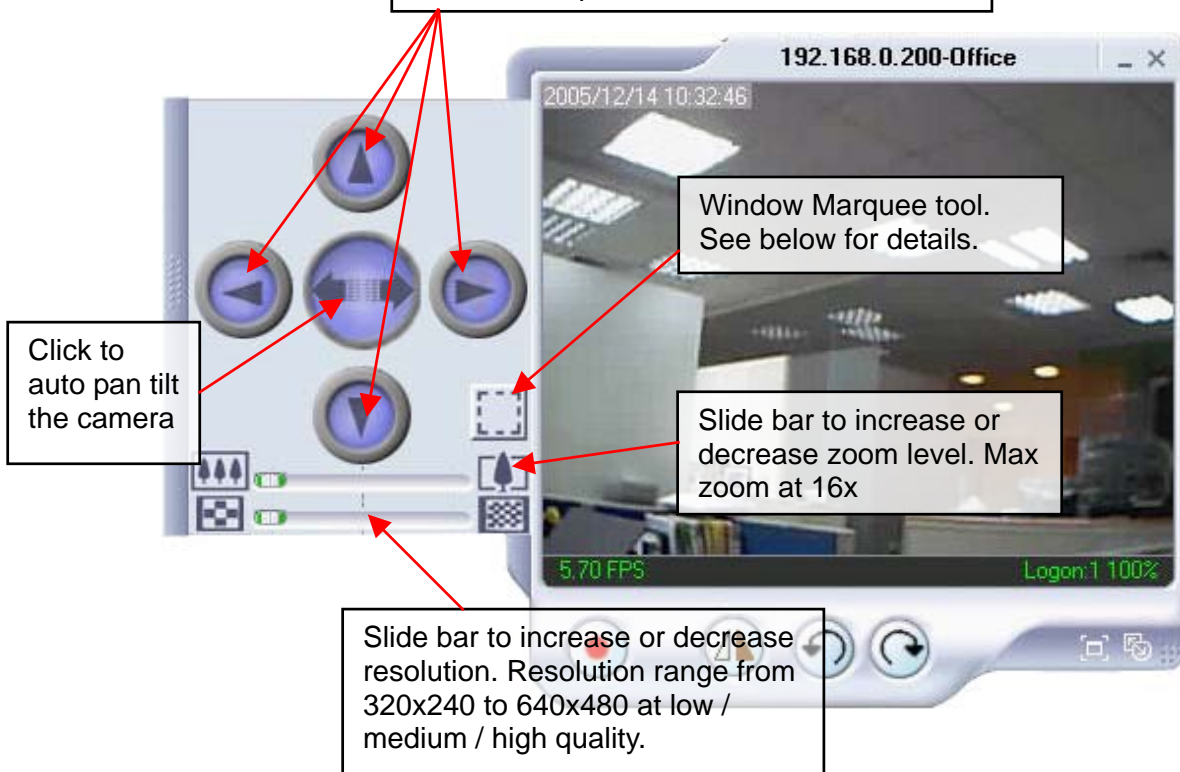
Move the cursor over the edges of the picture and it will turn into a double arrow. Click and hold to pan / tilt the camera (if the camera supports this function)



Once the record button is clicked, the user can determine the recording format / compression and save directory.



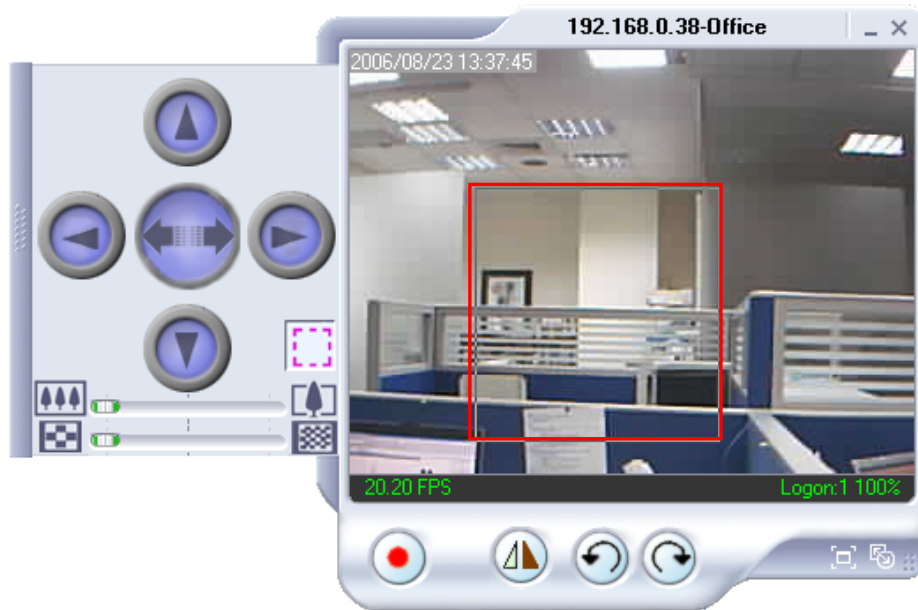
Click to move the camera by 1 degree in the direction of the arrow. Click and hold to increase speed.



Window marquee tool. Click to marquee a custom window. This feature has two functions;

**a. Custom window zoom** – zoom to custom window.

On the video window, **LEFT** click, hold and drag to the desired window zoom size. A thin line will outline the new window size.



Release and iMultiView will zoom to the marquee area. Increase the resolution for a better image quality.



While zoomed in, the user can digitally pan or tilt the camera window. Even if it is a static camera!



Click the depressed button to go back to the original window size or slide the zoom bar to the left.

**Note:** Allow a few seconds for the camera to readjust and compensate for brightness.

**b. Custom update Window --** To monitor a custom area.

On the video window, **RIGHT** click, hold and drag to the desired window zoom size. A thin line indicate the chosen window size.






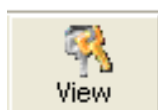
Release to set the window frame. Video in this custom window will be updated while those outside are 'frozen'.



You can digitally pan and tilt the smaller window while in this state. Only video in the custom window will be updated. This feature works with Static or Pan Tilt Camera.

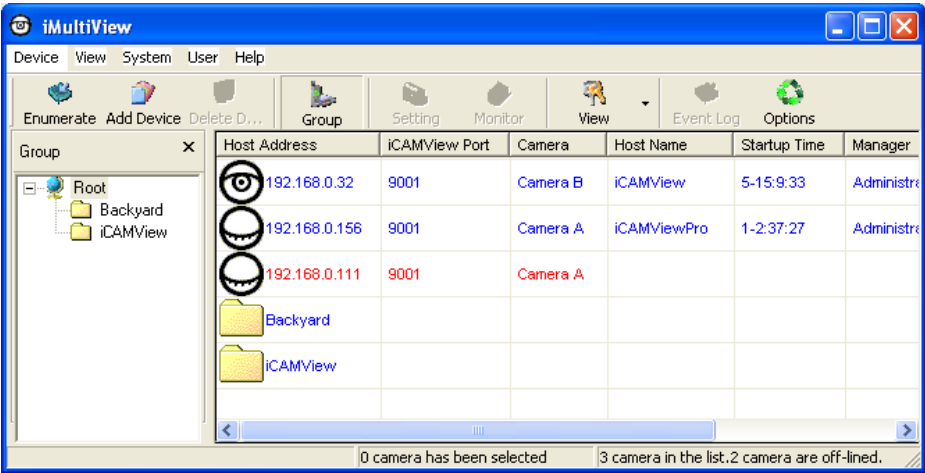
Click the depressed  button to go back to the original window size or slide the zoom bar to the left.

### 1.2.7 View

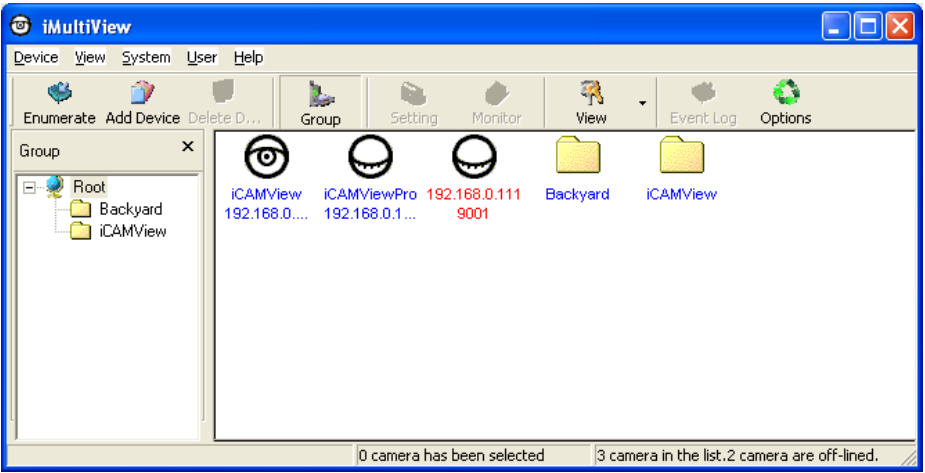


Switch between Multi-View, Large or Small icon mode;

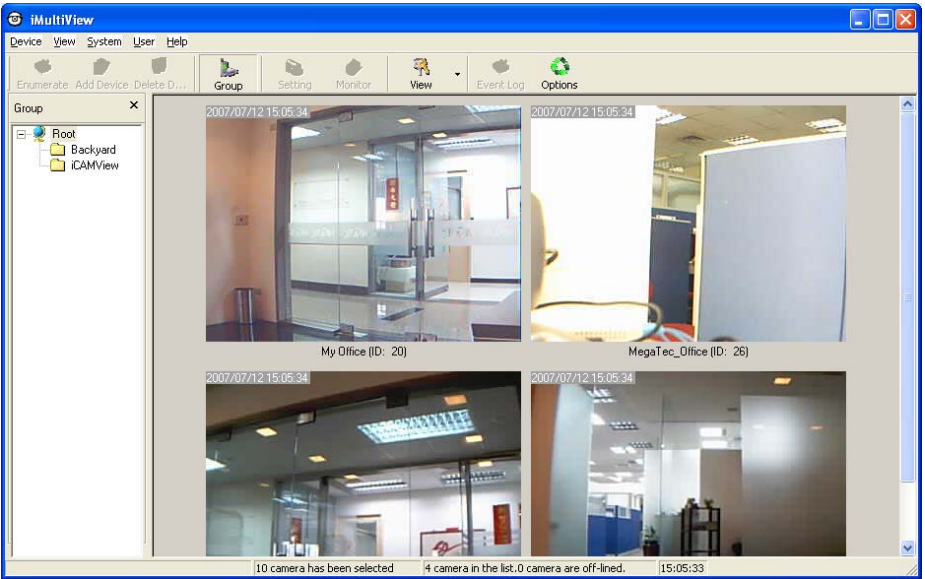
Small icon view (default)



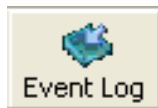
Large icon view



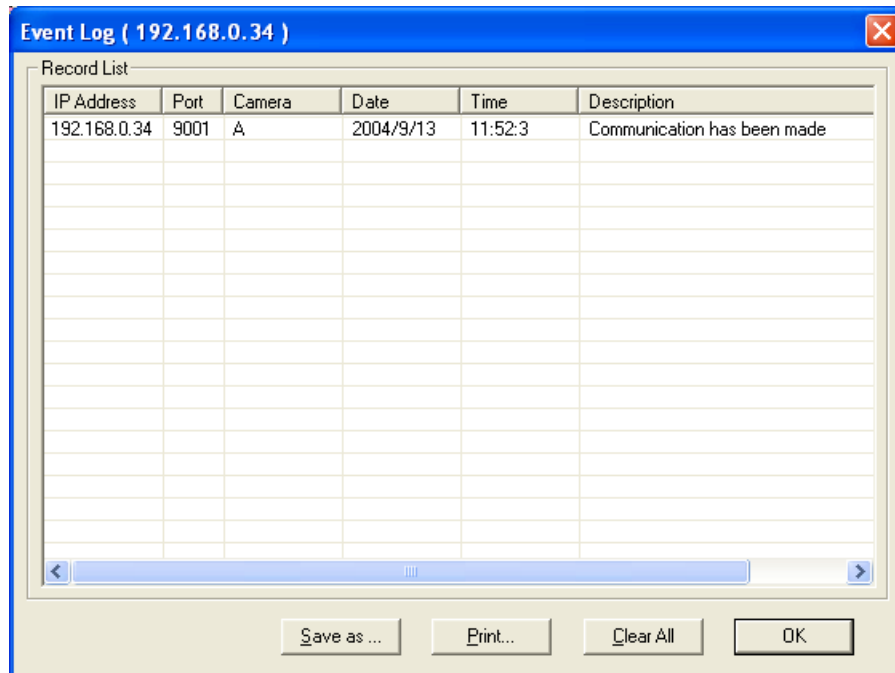
Multi-View mode



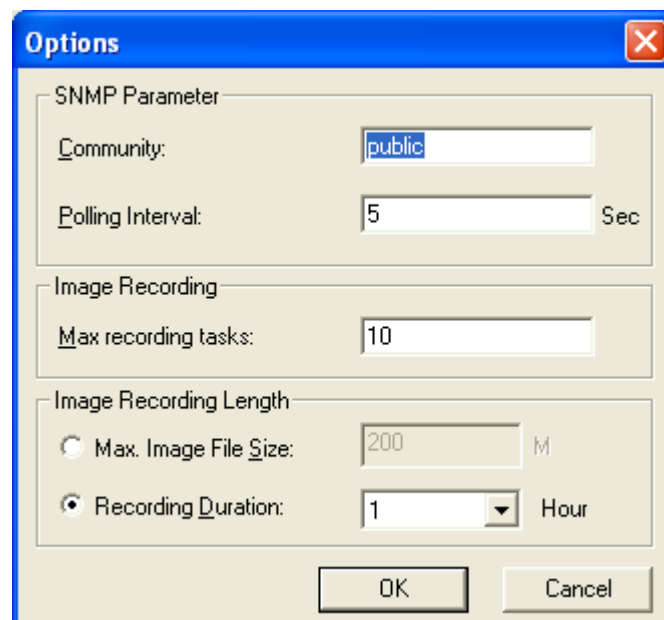
### 1.2.8 Event Log



Display the Event Log (IP address, Port, date, Time, description of event) of the selected iCAMView unit.



### 1.2.9 Options



This section sets the SNMP parameters

### 1.2.10 User

#### Change Password ...

Use this feature to change the User's login password to iMultiView.

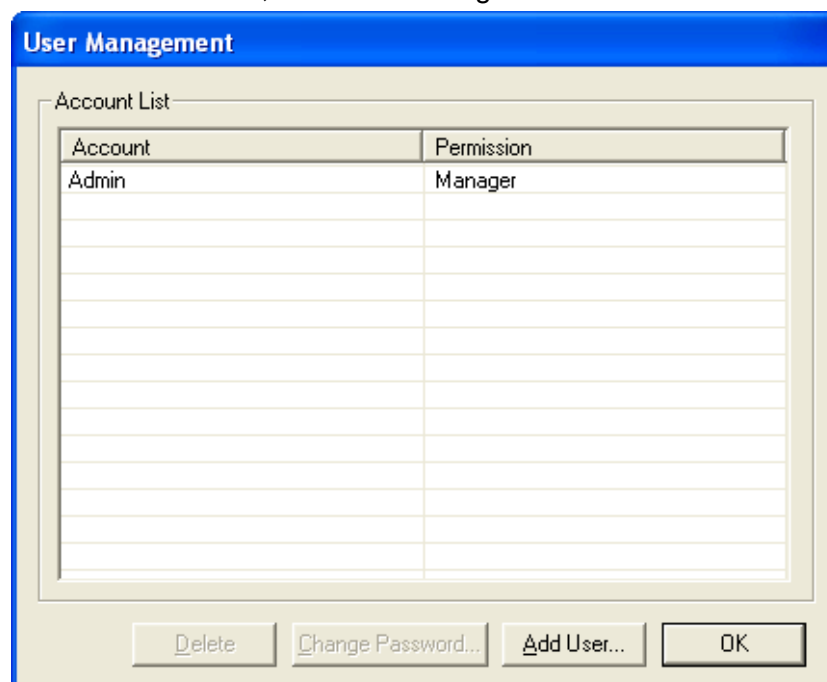
Either **Administrator** or **User** can change their Account passwords.



The 'Change Password' dialog box has a blue title bar with a close button. It contains a section titled 'Account Information' with three text input fields: 'Old password:', 'New password:', and 'Confirm new password:'. At the bottom are 'OK' and 'Cancel' buttons.

#### Account Management...

Use this section to Add, Delete or Change the Password of an Account.

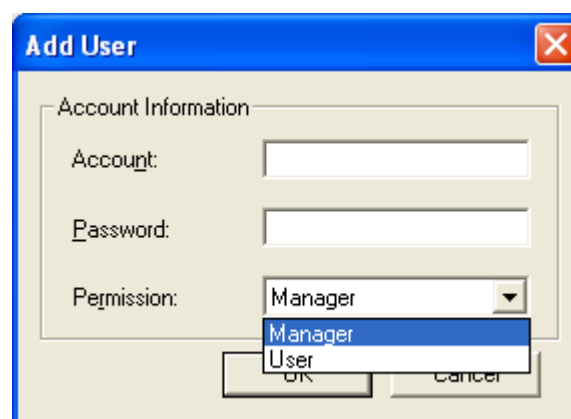


The 'User Management' dialog box has a blue title bar. It features a table titled 'Account List' with two columns: 'Account' and 'Permission'. The first row shows 'Admin' and 'Manager'. Below the table are four buttons: 'Delete', 'Change Password...', 'Add User...', and 'OK'.

Account	Permission
Admin	Manager

#### Add User...

There is no limit to the number of Account that can be added.



The 'Add User' dialog box has a blue title bar with a close button. It contains a section titled 'Account Information' with three fields: 'Account:', 'Password:', and 'Permission:'. The 'Permission:' field is a dropdown menu currently showing 'Manager', with a list box open below it showing 'Manager' and 'User'. At the bottom are 'OK' and 'Cancel' buttons.

**Note:** The first account is set to **Manager** permission. This cannot be changed or deleted.

**Account:** Enter the preferred account name (max of 10 characters). The Account name cannot be edited.

**Password:** Enter a password (max of 10 characters). The password is case sensitive and can be left blank.

**Permission:** Choose **Manager** or **User**.

A **Manager** can change, see, add or delete any of the information in iMultiView.

A **User** is not able to Add, Delete or Change Settings of a camera.

### 1.2.11 Help

**Help** Display the current iMultiView version, Copyright information and product service contact.



### 1.3 Drag-and-Drop Feature

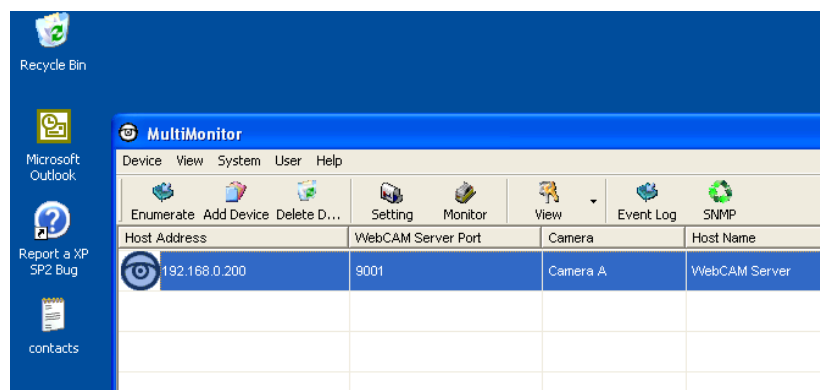
iMultiView feature a “Drag-and-Drop to Desktop” function. Double click the icon on your desktop to immediately view the video. Useful when monitoring multiple cameras at a time.

#### Step 1:

Select the camera location of your choice.

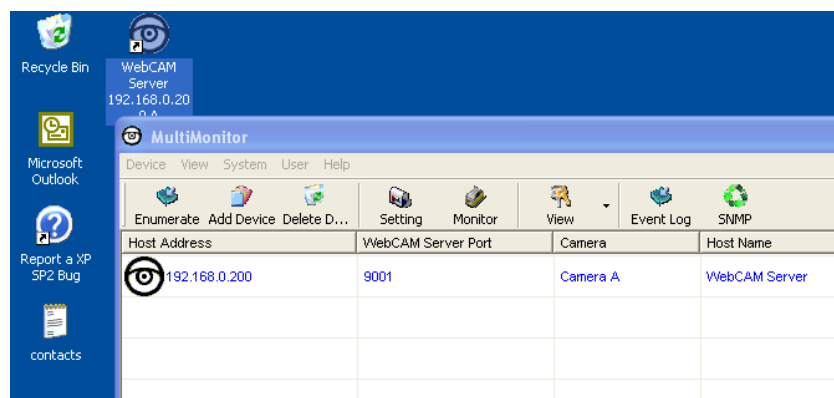
#### Step 2:

Left click, hold and drag it onto the desktop.



#### Step 3:

Release the mouse button anywhere on the desktop and a new desktop icon is created there.



#### Step 4:

Double click on the icon on the desktop, to view the images.

